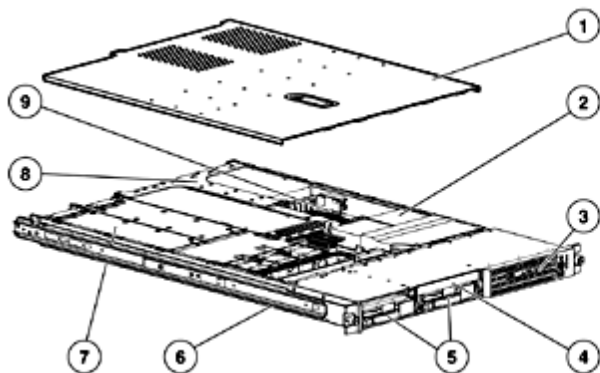


# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

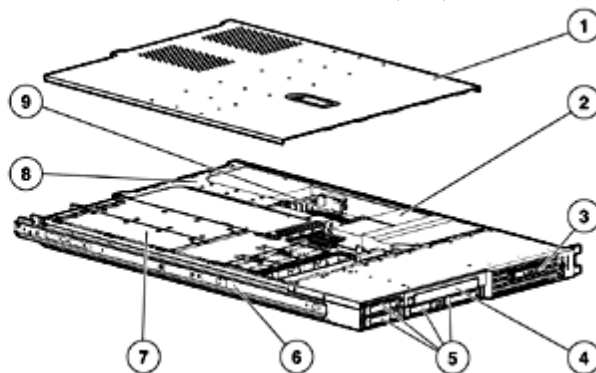
### Overview

Ultra320 SCSI and SATA Model



1. Removable server hood
2. Up to two Intel Xeon™ processors
3. Removable processor fan assembly with front and secure internal USB ports
4. Removable media bay
5. Two Ultra320 hot plug drive bays; or  
Two SATA pluggable drive bays; or  
Four Serial Attached SCSI hot plug drive bays

Serial Attached SCSI (SAS) Model



6. Sliding rails standard for in rack servicing
7. Redundant power supplies
8. 1 full length and 1 half length PCI-X slots (optional PCI Express)
9. Up to 12 GB DDR2 PC2-3200 SDRAM

### What's New

- 2.8 GHz Dual-core Intel® Xeon™ processors are now available with the powerful HP ProLiant DL360 G4p Serial Attached SCSI (SAS) model. Offering up to a 50% performance increase over single-core processors, the Dual-core Intel Xeon offers a 2x2MB L2 cache and 64-bit capability.
- 3.8 GHz Intel® Xeon™ processors are available now available with robust HP ProLiant DL360 G4p SCSI and SAS models and includes 2MB L2 cache and 64-bit support.
- Introducing Xeon™ 3.0 GHz low voltage processor for performance per watt optimization in dense server environments.

### At A Glance

Combining concentrated 1U compute power, integrated Lights-Out management, and essential fault tolerance, the DL360 is optimized for space constrained installations. Dual Xeon processors, DDR2 SDRAM, and PCI-X and PCI Express technology provide a high performance system ideal for the full range of scale out applications. What's more, the DL360 G4p steps up the fault tolerant in an ultra dense platform with redundant power, redundant fans, and online spare memory, embedded RAID capability, and full-featured remote Lights-Out management.

- **Processors:**
  - 64-bit Intel® Xeon™ processors supporting 64-bit extension and 64-bit Microsoft Windows and Linux operating systems
  - SAS Model - best performance:
    - Up to 2.8 GHz Dual-core and 3.8 GHz single core Intel Xeon processor options
  - SCSI Model - best price/performance:
    - Up to 3.8 GHz single core processor Intel Xeon processor options
  - SATA Model - best priced:
    - Up to 3.6 GHz single core processor Intel Xeon processor options
- **Memory:**

# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Overview

- Up to 12 GB of PC2-3200 DDR2 400 SDRAM; with 2-way interleaving
- Advanced ECC memory standard; optional Online Spare Memory
- **Storage Controller:**
  - SAS Model - best performance:
    - HP Smart Array P600/256 BBWC Controller
  - SCSI Model - best price/performance:
    - Embedded Smart Array 6i RAID Controller with optional 128MB transportable battery backed cache (SCSI models)
  - SATA Model - best priced:
    - Embedded 2 Port SATA Controller (SATA models)
- **Internal Drive Support:**
  - SAS Model - best performance:
    - Up to four Small Form Factor (SFF) Serial Attached SCSI (SAS) hot plug hard drives or four SFF Serial ATA (SATA) hard drives
  - SCSI Model - best price/performance:
    - Up to two Universal SCSI hot plug disk drives
  - SATA Model - best priced:
    - Up to two pluggable Serial ATA disk drives
- **Network Controller:**
  - Embedded NC7782 PCI-X Gigabit Server Adapter
- **Expansion Slots:**
  - Two 64-bit/133 MHz PCI-X slots
  - Optional PCI-X to PCI-Express conversion kit
- **USB Ports:**
  - 3 Total: 1 front, 1 internal, 1 rear accessible port
- **Redundancy:**
  - Fan redundancy, standard
  - Hot plug power supply with optional 1 + 1 redundancy
- **Management:**
  - Built in reliability and availability features: embedded RAID, redundant fans, redundant power option, pre-failure notifications, and Lights-Out Management
  - Integrated Lights-Out (iLO) remote management embedded on every HP ProLiant DL360 G4p
  - Optional Integrated Lights-Out support for Power Regulator for ProLiant and introducing support for the draft DMTF System Management Architecture for Server Hardware Command Line Protocol standard
  - HP Power Regulator for ProLiant delivering server level, policy based power management with industry leading energy efficiency and savings on system power and cooling costs
  - Support for iLO Shared Network Port enables access to the iLO management processor through one of the embedded system NICs
  - ProLiant Essential Foundation Pack standard, including HP Systems Insight Manager, SmartStart, SmartStart Scripting Toolkit, Subscriber's Choice and ROM Based Setup Utility (RBSU).
- **Form Factor:**
  - 1U Rack form factor (1.75")
- **Deployment/Serviceability:**
  - Sliding rails for in rack servicing ship standard; optional ambidextrous cable management arm
- **Warranty:**
  - Protected by HP Services and a worldwide network of resellers and service providers. Three-year Next Business Day, on-site limited global warranty. Certain restrictions and exclusions apply. Pre-Failure Notification on processors, memory, and SCSI/SAS hard drives. SATA hard drives have a one-year warranty.

# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Standard Features

**NOTE:** For the Standard Features shipped in the "Factory Integrated Models", please see the "Configuration Information - Factory Integrated Models" section.

|  |  |
|--|--|
| <b>Processor</b>                               | Intel Xeon Processor 2.8 GHz/800MHz -2MB L2, 110W  |
| <b>One of the following depending on Model</b> | Intel Xeon Processor 3.0 GHz/800MHz -2MB L2, 110W  |
|  | Intel Xeon Processor 3.0 GHz/800MHz -2MB L2, Low Voltage 55W   |
|  | Intel Xeon Processor 3.2 GHz/800MHz -2MB L2, 110W  |
|  | Intel Xeon Processor 3.4 GHz/800MHz -2MB L2, 110W  |
|  | Intel Xeon Processor 3.6 GHz/800MHz -2MB L2, 110W  |
|  | Intel Xeon Processor 3.8 GHz/800MHz -2MB L2, 110W  |
|  | Dual-core Intel Xeon Processor 2.8 GHz/800MHz - 2x2MB L2, 135W   |
|  | <b>NOTE:</b> Dual-core processor is supported on HP ProLiant DL360 G4p Serial Attached SCSI (SAS) models only. |

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|                        |                          |
|------------------------|--------------------------|
| <b>Processor Cache</b> | 2MB Level 2 cache memory |
|------------------------|--------------------------|

---

|                       |                                |
|-----------------------|--------------------------------|
| <b>Upgradeability</b> | Upgradeable to dual processing |
|-----------------------|--------------------------------|

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|                |                        |
|----------------|------------------------|
| <b>Chipset</b> | Intel chipset is E7520 |
|----------------|------------------------|

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|  |   |
|--|---|
| <b>Memory Protection &amp; Functionality</b> | Advanced ECC (multi-bit error protection)<br>Online spare<br>2-way interleaving |
|--|---|

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|               |                           |                         |
|---------------|---------------------------|-------------------------|
| <b>Memory</b> | Type                      | PC2-3200 DDR2 400 SDRAM |
|               | Standard                  | 1 GB (2 x 512 MB)       |
|               | Standard (on some models) | 2 GB (2 x 1024 MB)      |
|               | Maximum                   | 12 GB                   |

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|                           |  |
|---------------------------|--|
| <b>Network Controller</b> | Embedded NC7782 PCI-X Gigabit Server Adapter |
|---------------------------|--|

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# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Standard Features

| Expansion Slots | Slot Number | Bus Speed               | Bus Number* | Device Number** | Hot Plug | PCI Voltage |
|-----------------|-------------|-------------------------|-------------|-----------------|----------|-------------|
|                 | 1           | 64-bit/133MHz<br>PCI-X  | 7           | 0               | no       | 3.3 Volt    |
|                 | 1           | x8 PCI Express (option) | 3           | 0               | no       | n/a         |
|                 | 2           | 64-bit/133MHz<br>PCI-X  | 10          | 0               | no       | 3.3 Volt    |
|                 | 2           | x8 PCI Express (option) | 13          | 0               | no       | n/a         |

\*NOTE: Default bus assignment. Inserting cards with PCI bridges may alter the actual bus assignment number.

\*\*NOTE: Slots are enumerated differently based on OS. MS OS's enumerate from lowest to highest Device ID by bus (starting with the lowest bus).

NOTE: All slots can accept universal keyed PCI cards.

**Manageability** Integrated Lights-Out (iLO) Management (integrated on motherboard)

**Storage Controllers**

|             |  |
|-------------|--|
| SAS Models  | HP Smart Array P600/256 BBWC Controller (installed in PCI-X slot)<br><b>NOTE:</b> The Smart Array P600 controller offers an external 4X SAS port for additional storage expansion.   |
| SCSI Models | HP Smart Array 6i Controller (embedded)<br><b>NOTE:</b> The HP ProLiant DL360 G4p does not offer an external SCSI port.  |
| SATA Models | HP embedded 2 Port SATA Controller (integrated on system board)<br><b>NOTE:</b> The HP embedded 2 Port SATA controller does not support RAID, hot plug drive functionality or drive activity LEDs.<br><b>NOTE:</b> SATA RAID 0, 1 is available with the optional purchase of the HP 8-port SAS HBA (347786-B21) and HP SAS/SATA Cable Kit (398307-B21) - hot-plug drive functionality and drive activity LEDs not supported. |

**Storage**

|                |  |
|----------------|--|
| Optical Drives | Ejectable CD-ROM (Standard in most models), DVD-ROM, or DVD-RW drives, or Slimline floppy<br><b>NOTE:</b> Slimline Floppy Diskette Drive is not supported in SCSI and SATA models. |
| Diskette Drive | 1.44 MB Diskette Drive<br><b>NOTE:</b> Standard in SCSI models; optional in SATA models; not available in SAS models.  |
| Drive Bays     | SAS Model 4 Small Form Factor<br>SCSI Model 2 HP Universal SCSI<br>SATA Model 2 Pluggable SATA   |

**Maximum Internal Storage Type**

|            |            |                         |
|------------|------------|-------------------------|
| SAS Model  | 584GB SAS  | 4 x 146GB SAS           |
|            | 240GB SATA | 4 x 60GB Serial ATA     |
| SCSI Model | 600GB      | 2 x 300GB Ultra320 SCSI |
| SATA Model | 1.50TB     | 2 x 750GB Serial ATA    |



# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Standard Features

|                            |                         |  |  |
|----------------------------|-------------------------|--|--|
| Interfaces                 | Serial                  | 1  |  |
|                            | Pointing Device (Mouse) | 1  |  |
|                            | Graphics                | 1  |  |
|                            | Hot Plug Keyboard       | 1  |  |
|                            | USB Ports               | 3 (rear, front, internal)  |  |
|                            |                         | <b>NOTE:</b> Please see the following URL for additional information regarding USB support:<br><a href="http://h18004.www1.hp.com/products/servers/platforms/usb-support.html">http://h18004.www1.hp.com/products/servers/platforms/usb-support.html</a> . |  |
|                            | Network RJ-45           | 2  |  |
| iLO remote management port | 1                       |  |  |

---

|          |  |
|----------|--|
| Graphics | Integrated ATI RAGE XL Video Controller with 8-MB SDRAM Video Memory |
|----------|--|

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|             |                              |
|-------------|------------------------------|
| Form Factor | Rack (1U), (1.75 in/4.45 cm) |
|-------------|------------------------------|

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### ProLiant Essentials Foundation Pack Software

HP Systems Insight Manager

HP Systems Insight Manager (HP SIM) provides a unified, secure and extensible environment to centrally manage servers, storage and other infrastructure devices across multiple operating system platforms.

Through a single management view, HP SIM provides core management services that include device discovery and identification, event views, health monitoring, inventory data collection, software version control and reporting. HP SIM is built on industry standards and is extensible with value-added ProLiant Essentials, Integrity Essentials and Storage Essentials software to meet individual management needs. For more details on HP SIM visit <http://www.hp.com/go/hpsim>.

HP SIM provides organizations with the following benefits:

- Simplifies and consolidates infrastructure lifecycle management using task and query based functionality
- Provides the foundation for infrastructure automation and virtualization
- Enables IT management based on business processes not hardware platforms
- Lowers infrastructure maintenance cost and frees resources for innovation
- Maximizes resource utilization with virtualization technologies
- Provides a central point of integration between infrastructure and Enterprise management tools such as HP OpenView

SmartStart

SmartStart is a tool that simplifies server setup, providing a rapid way to deploy reliable and consistent server configurations. For more information, please visit the SmartStart Web site at <http://www.hp.com/servers/smartstart>. SmartStart version supported (minimum): SmartStart 7.2.

# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Standard Features

|  |  |
|--|--|
| Insight Management Agents                              | Insight Management Agents should be installed on all HP servers to present system instrumentation, health and configuration information into HP Systems Insight Manager and the HP System Management Homepage. The HP System Management Homepage aggregates systems data from Insight Management Agents and other HP management tools, providing a consolidated browser-based interface for managing individual servers, Insight Management Agents and The HP System Management Homepage are included on ProLiant Support Packs, and can also be installed using the server profiles provided with the ProLiant Essentials Rapid Deployment Pack. For additional information about the Management Agents and the HP System Management Homepage please visit the management Web site at <a href="http://www.hp.com/servers/manage">http://www.hp.com/servers/manage</a>   |
| Subscriber's Choice                                    | Subscriber's Choice Driver and Support Alerts/Notifications is a web-based email subscription service that provides automatic delivery of software and driver change notifications for ProLiant products. Sign up at <a href="http://www.hp.com/go/subscriberschoice">http://www.hp.com/go/subscriberschoice</a> and customize your profile to receive various new alerts as they become available, on a weekly or monthly basis.  |
| ROMPaaS, support software, and configuration utilities | The latest software, drivers, and firmware fully optimized and tested for your ProLiant server and options available in SmartStart or downloadable from Software and Drivers download pages: <a href="http://www.hp.com/go/support">http://www.hp.com/go/support</a>   |
| Insight Diagnostics Online Edition                     | The most advanced configuration analysis, reporting and troubleshooting utilities used by HP and at your fingertips, available in SmartStart.  |
| Optional ProLiant Essentials Value Packs               | Optional software offerings that selectively extend the functionality of an Adaptive Infrastructure to address specific business problems and needs: <ul style="list-style-type: none"><li>• Rapid Deployment Pack (RDP) is an automated deployment and provisioning solution for all ProLiant servers. RDP includes the ProLiant Integration Module featuring ProLiant server pre-configured events for OS installation, and optimized software drivers, firmware and management agents. Every RDP disc includes a 7-day, 10-node trial licenses for evaluation purposes. RDP requires a license for each server deployed and is available for purchase with HP servers. For more information, visit: <a href="http://www.hp.com/servers/rdp">http://www.hp.com/servers/rdp</a>.</li><li>• Workload Management Pack - provides easier management of complex environments, improving overall server utilization and enabling Windows® 2000 customers for the first time to confidently deploy multiple applications on a single multiprocessor ProLiant Server.</li><li>• Performance Management Pack - a performance management solution that identifies and explains hardware performance bottlenecks on ProLiant servers and attached options enabling users to better utilize their valuable resources.</li><li>• Intelligent Networking Pack - detects and analyzes network bottlenecks or broken network linkages and steers traffic to the optimum route based on network conditions, plus it provides an extra layer of protection. The virus throttle feature of the solution slows the propagation of fast spreading virus</li><li>• Vulnerability and Patch Management Pack - identifies and remediates software security vulnerabilities due to missing patches as well operating system configurations that can be exploited by viruses, worms, and other blended threats</li><li>• Virtual Machine Management Pack - provides central management</li></ul> |

# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Standard Features

#### Optional Remote Management Packs

- and control of virtual machines from Microsoft and VMware. Integrated approach provides the ability to manage both physical and virtual resources from a single management console.
- Server Migration Pack - The Server Migration Pack automates the manual processes required for migrating servers between physical or virtual platforms (P2V, V2P, and V2V).
  - Server Migration Pack - P2P Edition: Upgrading or replacing your existing server? Effortlessly transition to new servers with automated, accurate and affordable migration of OS, application and data.
  - Integrated Lights-Out Advanced Pack - upgrades the Integrated Lights-Out processor to full virtual presence and control with graphical console and virtual media.

**NOTE:** Flexible and volume quantity license kits are available for ProLiant Essentials Value Packs. Refer to <http://www.hp.com/servers/proliantessentials> or the various ProLiant Essentials Value Pack product QuickSpecs for more information.

**NOTE:** For more information regarding ProLiant Essentials Software, please see the following URL: <http://www.hp.com/servers/proliantessential>.

#### Industry Standard Compliance

ACPI 1.0b Compliant  
PCI 2.2 Compliant  
Microsoft® Logo certifications  
USB 1.1 and 2.0 Compliant

#### Remote Manageability

Integrated Lights-Out (iLO) Standard Management:

- Virtual Text Remote Console
- Virtual Power Button Control
- Dedicated & shared LAN Connectivity
- Browser and command line access
- Automatic IP Configuration via DHCP/DNS/WINS
- Industry Standard 128-bit Secure Sockets Layer (SSL) and Secure Shell Security
- IML and iLO Event Logging
- Support for 12 user accounts with customizable access privilege

Integrated Lights Out Advanced Pack (optional)  
Remote Lights out Edition II (optional)

# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Standard Features

**Intelligent Manageability** HP Systems Insight Manager  
SmartStart  
Remote Insight Lights-Out Edition II (optional)  
ROM-Based Setup Utility (RBSU)  
Remote-Flash Redundant ROM  
Integrated Management Log (IML)  
Server Health logging  
Automatic Server Recovery-2 (ASR-2)  
System Interconnect Status Indicators  
Dynamic sector repairing and drive parameter tracking (with Smart Array controllers)  
Hot Spare Boot  
**(NOTE: Upon the event of a failed processor or VRM in a multi-processing environment, the system will automatically reboot and use the remaining good processor(s).)**  
Power Down Utility  
Pre-Failure Warranty (covers processors, as well as SCSI/SAS hard drives and memory)

**Security** Power-on password  
Keyboard password  
Diskette drive control  
Diskette boot control  
QuickLock, Network Server Mode  
Removable CD and Diskette Drive Assembly  
Serial interface control  
Administrator's password  
Disk configuration lock  
Integrated Lights-Out has 12 customizable user accounts and SSL encryption  
Integrated Lights-Out can be disabled via a Global Setting

**Server Power Cords** One Lowline NEMA power cord and One Highline IEC Power cord ships standard in most NA models. Smart Buys include one IEC power cable per power supply. Localized cables included with geographic specific models in other world regions.

**UPS Power Cord Matrix** Please see the UPS Power Cord Matrix for cable descriptions, requirements, and specifications for UPS units:  
<ftp://ftp.compaq.com/pub/products/servers/proliantstorage/power-protection/powercordmatrix.pdf>.

**Power Supply** SAS Models: 535W Optional (1 + 1 redundant) power supply  
**NOTE:** PN 389830-B21 contains the optional power supply and an IEC power cable only; purchase if connecting to PDU/UPS that supports IEC cables. PN 389830-001 contains a low line (NEMA) power cord only.  
SCSI & SATA Models: 460W Optional (1 + 1 redundant) power supply  
**NOTE:** PN 354587-B21 contains the optional power supply and an IEC power cable only; purchase if connecting to PDU/UPS that supports IEC cables. PN 354587-001 contains a low line (NEMA) power cord only.

**System Fans** 7 fans ship standard; Fan redundancy standard



# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Standard Features

#### Required Cabling

For required cabling information, refer to the Web site at <http://h18000.www1.hp.com/products/servers/proliantdl360/>.

#### OS Support

Microsoft Windows 2000 Server  
Microsoft Windows Server 2003  
Novell NetWare  
Linux (Red Hat, SuSE, UnitedLinux)  
Solaris  
VMware Virtualization Software

**NOTE:** SAS, SCSI and SATA models may have different OS support. Please see OS Support Matrix.

**NOTE:** For a more complete and up-to-date listing of supported OSs and versions, please visit our OS Support Matrix page at: <http://www.hp.com/go/supportos>.

**NOTE:** For more complete and up-to-date information on how to buy server operating systems from HP please visit the OS product site at: <http://h18004.www1.hp.com/products/servers/software/OEM.html>

**NOTE:** For a listing of the latest drivers available for the HP ProLiant DL360, please see: <http://h18023.www1.hp.com/support/files/server/us/index.html>.

**NOTE:** For a more complete and up-to-date information on Linux support, please visit HP Linux Web site at <http://h18000.www1.hp.com/products/servers/linux/hpLinuxcert.html>.

**NOTE:** For more information on HP's Certified and Supported ProLiant Servers, please visit the VMware Server Support Matrix at:

<http://h18004.www1.hp.com/products/servers/software/vmware/hpvmwarecert.html>.

#### Rack Airflow Requirements

##### Rack 10000 series Cabinets

The increasing power of new high-performance processor technology requires increased cooling efficiency for rack-mounted servers. The 10000 Series Racks provide enhanced airflow for maximum cooling, allowing these racks to be fully loaded with servers using the latest processors.

**CAUTION:** If a third-party rack is used, observe the following additional requirements to ensure adequate airflow and to prevent damage to the equipment:

- **Front and rear doors:** If your 42U server rack includes closing front and rear doors, you must allow 830 square inches (5,350 sq cm) of hole evenly distributed from top to bottom to permit adequate airflow (equivalent to the required 64 percent open area for ventilation).
- **Side:** The clearance between the installed rack component and the side panels of the rack must be a minimum of 2.75 inches (7 cm).

**CAUTION:** Always use blanking panels to fill all remaining empty front panel U-spaces in the rack. This arrangement ensures proper airflow. Using a rack without blanking panels results in improper cooling that can lead to thermal damage.

**NOTE:** For additional information, refer to the Setup and Installation Guide or the Documentation CD provided with the server, or to the server documentation located in the Support section at the following URL: <http://h18000.www1.hp.com/products/servers/proliantdl360/index.html>.

# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Standard Features

#### Factory Express Portfolio for Servers and Storage

HP Factory Express offers configuration, customization, integration and deployment services for HP servers and storage products. Customers can choose how their factory solutions are built, tested, integrated, shipped and deployed.

Factory Express offers service packages for simple configuration, racking, installation, complex configuration and design services as well as individual factory services, such as image loading, asset tagging, and custom packaging. HP products supported through Factory Express include a wide array of servers and storage: HP Integrity, HP ProLiant, HP ProLiant Server Blades, HP BladeSystem, HP 9000 servers as well as the MSA1000, VA7xxx, EVA, XP, rackable tape libraries and configurable network switches.

For more information on Factory Express services for your specific server model please contact your sales representative or go to <http://www.hp.com/go/factory-express>.

#### HP Enterprise Configurator

The HP eCo-Enterprise Configurator now provides factory default racking for our HP hardware portfolio. This approach is aligned with our strategic direction to meet the needs and expectations of our valued customers. If you require "custom" rack configuration, please contact HP's Customer Business Center or an Authorized Partner for assistance.

#### Service and Support

This product is covered by a global limited warranty and supported by HP Services and a worldwide network of resellers and service providers. Hardware diagnostic support and repair is available for three years from date of purchase. Support for software and initial setup is available for 90 days from date of purchase. Additional support may be covered under the warranty or available for an additional fee. Enhancements to warranty services are available through HP Care Pack services or customized service agreements.

**NOTE:** Server Warranty includes 3 year Parts, 3 year Labor, 3-year on-site support. Additional information regarding worldwide limited warranty and technical support is available at: <http://h18004.www1.hp.com/products/servers/platforms/warranty/index.html>

HP Care Pack services include coverage for the HP branded hardware options qualified for the server, purchased at the same time or afterward, internal to the enclosure, as well as 22" and smaller external monitors and tower UPS options up to 3kVA; these items will be covered at the same service level and for the same coverage period as the server. Coverage of UPS Battery is not included, standard warranty terms & conditions apply. For servers or storage systems installed within a rack, service also covers all HP qualified rack options installed within the same rack.

HP services provide continuous care and support expertise with committed response designed to meet your IT and business needs.

To fully capitalizing on your HP ProLiant servers' capabilities requires a service partner who thoroughly understands your server technology and systems environment. HP Services, an industry leader in provision of multi vender support solutions provides a range of support services designed to meet the varying needs of business. Whether an SMB or large global corporation HP has a ProLiant server support offer to help you speedily deploy and maximize system uptime.

Enhanced Care - Minimum recommended service support offer designed to ensure customers have access to expert assistance, whenever they need it.

- 4-Hour On-site Service, 7-Day x 24-Hour Coverage, 3 Years

Continuance Care - Recommended service delivering cost-effective support options designed to extend HP Services committed response and guaranteed fix times, designed to speed problem identification and

### Standard Features

resolution.

- *6-Hour Call to Repair, On-site Service, 7-Day x 24-Hour Coverage, 3 Years*

Total Care - Highest HP Support service level recommend to help increase IT performance and availability with comprehensive, integrated hardware and software services

- *Support Plus 24 - Onsite HW support 24x7, 4hr response and Microsoft O/S SW Tech support offsite, onsite at HP's discretion, 24x7 2hr response time incl. HP holidays*

Deployment Services - HP Installation and Start Up services designed to take time, risk, and worry out of the deployment of ProLiant servers - and free customers IT support staff to focus on what they do best, their business.

- *Installation & Start-Up of a ProLiant server and Microsoft or Linux O/S per the Customer Description and/or Data Sheet. To be delivered on a scheduled basis 8am-5pm, M-F, excl. HP holidays*

**NOTE:** For a complete listing of service offerings and information visit:

<http://www.hp.com/services/proliantservices>

<http://www.hp.com/go/proliant/carepack>

# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Models

#### SAS Models

DL360R04p X3.0-  
2MB/800, 1GB SAS  
389820-xx1

|                    |   |
|--------------------|---|
| Processor          | (1) Intel Xeon Processor 3.0 GHz/800MHz standard (up to 2 supported)  |
| Cache Memory       | 2MB level 2 cache   |
| Memory             | 1 GB (2 x 512 MB) Standard to 12 GB (Maximum) of PC2-3200 DDR2 400 SDRAM  |
| Network Controller | Embedded NC7782 PCI-X Gigabit Server Adapter  |
| Storage Controller | HP Smart Array P600/256 BBWC Controller   |
| Hard Drives        | None ship standard; system supports up to four Serial SCSI or Serial ATA drives.  |
| Remote Management  | Integrated Lights-Out (iLO) Standard Management (embedded)  |
| Power Supply       | One 535W power supply (redundant power supply optional)   |
| Optical Drive      | Slimline CD-ROM Drive   |
| PCI-X Slots        | 1 full length and 1 half length 64bit/133 MHz PCI-X slot<br><b>NOTE:</b> Full length slot is occupied with HP Smart Array P600 Controller and is not available. |
| Form Factor        | Rack (1U), (1.75 in/4.45 cm)  |

DL360R04p X3.2-  
2MB/800, 2GB SAS RPS  
389821-xx1

|                    |   |
|--------------------|---|
| Processor          | (1) Intel Xeon Processor 3.2 GHz/800MHz standard (up to 2 supported)  |
| Cache Memory       | 2MB level 2 cache   |
| Memory             | 2 GB (2 x 1024 MB) Standard to 12 GB (Maximum) of PC2-3200 DDR2 400 SDRAM   |
| Network Controller | Embedded NC7782 PCI-X Gigabit Server Adapter  |
| Storage Controller | HP Smart Array P600/256 BBWC Controller   |
| Hard Drives        | None ship standard; system supports up to four Serial SCSI or Serial ATA drives.  |
| Remote Management  | Integrated Lights-Out (iLO) Standard Management (embedded)  |
| Power Supply       | Two 535W power supplies (1 + 1 redundant)   |
| Optical Drive      | Slimline CD-ROM Drive   |
| PCI-X Slots        | 1 full length and 1 half length 64bit/133 MHz PCI-X slot<br><b>NOTE:</b> Full length slot is occupied with HP Smart Array P600 Controller and is not available. |
| Form Factor        | Rack (1U), (1.75 in/4.45 cm)  |

# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Models

|   |                           |   |
|---|---------------------------|---|
| <b>DL360R04p X3.4-2MB/800, 2GB SAS RPS 389822-xx1</b> | <b>Processor</b>          | (1) Intel Xeon Processor 3.4 GHz/800MHz standard (up to 2 supported)  |
|   | <b>Cache Memory</b>       | 2MB level 2 cache   |
|   | <b>Memory</b>             | 2 GB (2 x 1024 MB) Standard to 12 GB (Maximum) of PC2-3200 DDR2 400 SDRAM   |
|   | <b>Network Controller</b> | Embedded NC7782 PCI-X Gigabit Server Adapter  |
|   | <b>Storage Controller</b> | HP Smart Array P600/256 BBWC Controller   |
|   | <b>Hard Drives</b>        | None ship standard; system supports up to four Serial SCSI or Serial ATA drives.  |
|   | <b>Remote Management</b>  | Integrated Lights-Out (iLO) Standard Management (embedded)  |
|   | <b>Power Supply</b>       | Two 535W power supplies (1 +1 redundant)  |
|   | <b>Optical Drive</b>      | Slimline CD-ROM Drive   |
|   | <b>PCI-X Slots</b>        | 1 full length and 1 half length 64bit/133 MHz PCI-X slot<br><b>NOTE:</b> Full length slot is occupied with HP Smart Array P600 Controller and is not available. |
|   | <b>Form Factor</b>        | Rack (1U), (1.75 in/4.45 cm)  |

|   |                           |   |
|---|---------------------------|---|
| <b>DL360R04p X3.6-2MB/800, 2GB SAS RPS 389823-xx1</b> | <b>Processor</b>          | (1) Intel Xeon Processor 3.6 GHz/800MHz standard (up to 2 supported)  |
|   | <b>Cache Memory</b>       | 2MB level 2 cache   |
|   | <b>Memory</b>             | 2 GB (2 x 1024 MB) Standard to 12 GB (Maximum) of PC2-3200 DDR2 400 SDRAM   |
|   | <b>Network Controller</b> | Embedded NC7782 PCI-X Gigabit Server Adapter  |
|   | <b>Storage Controller</b> | HP Smart Array P600/256 BBWC Controller   |
|   | <b>Hard Drives</b>        | None ship standard; system supports up to four Serial SCSI or Serial ATA drives.  |
|   | <b>Remote Management</b>  | Integrated Lights-Out (iLO) Standard Management (embedded)  |
|   | <b>Power Supply</b>       | Two 535W power supplies (1 +1 redundant)  |
|   | <b>Optical Drive</b>      | Slimline CD-ROM Drive   |
|   | <b>PCI-X Slots</b>        | 1 full length and 1 half length 64bit/133 MHz PCI-X slot<br><b>NOTE:</b> Full length slot is occupied with HP Smart Array P600 Controller and is not available. |
|   | <b>Form Factor</b>        | Rack (1U), (1.75 in/4.45 cm)  |

# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Models

|  |                    |   |
|--|--------------------|---|
| DL360R04p X3.8-2MB/800, 2GB SAS RPS 394919-xx1 | Processor          | (1) Intel Xeon Processor 3.8 GHz/800MHz standard (up to 2 supported)  |
|  | Cache Memory       | 2MB level 2 cache   |
|  | Memory             | 2 GB (2 x 1024 MB) Standard to 12 GB (Maximum) of PC2-3200 DDR2 400 SDRAM   |
|  | Network Controller | Embedded NC7782 PCI-X Gigabit Server Adapter  |
|  | Storage Controller | HP Smart Array P600/256 BBWC Controller   |
|  | Hard Drives        | None ship standard; system supports up to four Serial SCSI or Serial ATA drives.  |
|  | Remote Management  | Integrated Lights-Out (iLO) Standard Management (embedded)  |
|  | Power Supply       | Two 535W power supplies (1 +1 redundant)  |
|  | Optical Drive      | Slimline CD-ROM Drive   |
|  | PCI-X Slots        | 1 full length and 1 half length 64bit/133 MHz PCI-X slot<br><b>NOTE:</b> Full length slot is occupied with HP Smart Array P600 Controller and is not available. |
|  | Form Factor        | Rack (1U), (1.75 in/4.45 cm)  |

### SCSI Models

|  |                    |   |
|--|--------------------|---|
| DL360R04p X3.8-2MB/800, 2GB SCSI, RPS 376235-xx1 | Processor          | (1) Intel Xeon Processor 3.8 GHz/800MHz standard (up to 2 supported)  |
|  | Cache Memory       | 2MB level 2 cache   |
|  | Memory             | 2 GB (2 x 1 GB) Standard to 12 GB (Maximum) of PC2-3200 DDR2 400 SDRAM  |
|  | Network Controller | Embedded NC7782 PCI-X Gigabit Server Adapter  |
|  | Storage Controller | Smart Array 6i Controller (U320, embedded on system board)<br><b>NOTE:</b> The HP ProLiant DL360 G4p does not offer an external SCSI port.                            |
|  | Hard Drives        | None ship standard; system supports up to two hot plug U320 drives<br><b>NOTE:</b> The HP ProLiant DL360 G4p SCSI models only support U320 Universal Hot Plug drives. |
|  | Remote Management  | Integrated Lights-Out (iLO) Standard Management (embedded)  |
|  | Power Supply       | Two 460W power supplies   |
|  | Optical Drive      | 24x IDE CD-ROM Drive (Low-profile)  |
|  | Diskette Drive     | 1.44 MB Diskette Drive  |
|  | PCI-X Slots        | 1 full length and 1 half length 64bit/133MHz PCI-X slot   |
|  | Form Factor        | Rack (1U), (1.75 in/4.45 cm)  |

# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Models

|   |                    |   |
|---|--------------------|---|
| DL360R04p X3.6-2MB/800, 1GB SCSI<br>376236-xx1      | Processor          | (1) Intel Xeon Processor 3.6 GHz/800MHz standard (up to 2 supported)  |
|   | Cache Memory       | 2MB level 2 cache   |
|   | Memory             | 1 GB (2 x 512 MB) Standard to 12 GB (Maximum) of PC2-3200 DDR2 400 SDRAM  |
|   | Network Controller | Embedded NC7782 PCI-X Gigabit Server Adapter  |
|   | Storage Controller | Smart Array 6i Controller (U320, embedded on system board)<br><b>NOTE:</b> The HP ProLiant DL360 G4p does not offer an external SCSI port.                            |
|   | Hard Drives        | None ship standard; system supports up to two hot plug U320 drives<br><b>NOTE:</b> The HP ProLiant DL360 G4p SCSI models only support U320 Universal Hot Plug drives. |
|   | Remote Management  | Integrated Lights-Out (iLO) Standard Management (embedded)  |
|   | Power Supply       | One 460W power supply (redundant power supply optional)   |
|   | Optical Drive      | 24x IDE CD-ROM Drive (Low-profile)  |
|   | Diskette Drive     | 1.44 MB Diskette Drive  |
|   | PCI-X Slots        | 1 full length and 1 half length 64bit/133MHz PCI-X slot   |
|   | Form Factor        | Rack (1U), (1.75 in/4.45 cm)  |
|   | <hr/>              |   |
| DL360R04p X3.6-2MB/800, 2GB SCSI, RPS<br>378705-xx1 | Processor          | (1) Intel Xeon Processor 3.6 GHz/800MHz standard (up to 2 supported)  |
|   | Cache Memory       | 2MB level 2 cache   |
|   | Memory             | 2 GB (2 x 1 GB) Standard to 12 GB (Maximum) of PC2-3200 DDR2 400 SDRAM  |
|   | Network Controller | Embedded NC7782 PCI-X Gigabit Server Adapter  |
|   | Storage Controller | Smart Array 6i Controller (U320, embedded on system board)<br><b>NOTE:</b> The HP ProLiant DL360 G4p does not offer an external SCSI port.                            |
|   | Hard Drives        | None ship standard; system supports up to two hot plug U320 drives<br><b>NOTE:</b> The HP ProLiant DL360 G4 SCSI models only support U320 Universal Hot Plug drives.  |
|   | Remote Management  | Integrated Lights-Out (iLO) Standard Management (embedded)  |
|   | Power Supply       | Two 460W power supplies (1 + 1 redundant)   |
|   | Optical Drive      | 24x IDE CD-ROM Drive (Low-profile)  |
|   | Diskette Drive     | 1.44 MB Diskette Drive  |
|   | PCI-X Slots        | 1 full length and 1 half length 64bit/133MHz PCI-X slot   |
|   | Form Factor        | Rack (1U), (1.75 in/4.45 cm)  |

# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Models

|  |   |  |  |
|--|---|--|--|
| DL360R04p X3.4-2MB/800, 2GB SCSI, RPS 380079-xx1 | Processor                                   | (1) Intel Xeon Processor 3.4 GHz/800MHz standard (up to 2 supported)   |  |
|  | Cache Memory                                | 2MB level 2 cache  |  |
|  | Memory                                      | 2 GB (2 x 1-GB) Standard to 12 GB (Maximum) of PC2-3200 DDR2 400 SDRAM   |  |
|  | Network Controller                          | Embedded NC7782 PCI-X Gigabit Server Adapter   |  |
|  | Storage Controller                          | Smart Array 6i Controller (U320, embedded on system board)<br><b>NOTE: The ProLiant DL360 G4p does not offer an external SCSI port.</b>                              |  |
|  | Hard Drives                                 | None ship standard; system supports up to two hot plug U320 drives<br><b>NOTE: The ProLiant DL360 G4p SCSI models only support U320 Universal Hot Plug drives.</b>   |  |
|  | Remote Management                           | Integrated Lights-Out (iLO) Standard Management (embedded)   |  |
|  | Power Supply                                | Two 460W power supply (1+1 redundant)  |  |
|  | Optical Drive                               | 24x IDE CD-ROM Drive (Low-profile)   |  |
|  | Diskette Drive                              | 1.44 MB Diskette Drive   |  |
|  | PCI-X Slots                                 | 1 full length and 1 half length 64bit/133MHz PCI-X slot  |  |
|  | Form Factor                                 | Rack (1U), (1.75 in/4.45 cm)   |  |
|  | <hr/>                                       |  |  |
|  | DL360R04p X3.4-2MB/800, 1GB SCSI 376237-xx1 | Processor  | (1) Intel Xeon Processor 3.4 GHz/800MHz standard (up to 2 supported) |
| Cache Memory                                     |   | 2MB level 2 cache  |  |
| Memory   |   | 1 GB (2 x 512 MB) Standard to 12 GB (Maximum) of PC2-3200 DDR2 400 SDRAM   |  |
| Network Controller                               |   | Embedded NC7782 PCI-X Gigabit Server Adapter   |  |
| Storage Controller                               |   | Smart Array 6i Controller (U320, embedded on system board)<br><b>NOTE: The HP ProLiant DL360 G4p does not offer an external SCSI port.</b>                           |  |
| Hard Drives                                      |   | None ship standard; system supports up to two hot plug U320 drives<br><b>NOTE: The HP ProLiant DL360 G4 SCSI models only support U320 Universal Hot Plug drives.</b> |  |
| Remote Management                                |   | Integrated Lights-Out (iLO) Standard Management (embedded)   |  |
| Power Supply                                     |   | One 460W power supply (redundant power supply optional)  |  |
| Optical Drive                                    |   | 24x IDE CD-ROM Drive (Low-profile)   |  |
| Diskette Drive                                   |   | 1.44 MB Diskette Drive   |  |
| PCI-X Slots                                      |   | 1 full length and 1 half length 64bit/133MHz PCI-X slot  |  |
| Form Factor                                      |   | Rack (1U), (1.75 in/4.45 cm)   |  |



# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Models

DL360R04p X3.2-  
2MB/800, 1GB SCSI  
379753-xx1

|                    |  |
|--------------------|--|
| Processor          | (1) Intel Xeon Processor 3.2 GHz/800MHz standard (up to 2 supported)   |
| Cache Memory       | 2MB level 2 cache  |
| Memory             | 1 GB (2 x 512 MB) Standard to 12 GB (Maximum) of PC2-3200 DDR2 400 SDRAM   |
| Network Controller | Embedded NC7782 PCI-X Gigabit Server Adapter   |
| Storage Controller | Smart Array 6i Controller (U320, embedded on system board)<br><b>NOTE: The HP ProLiant DL360 G4p does not offer an external SCSI port.</b>                           |
| Hard Drives        | None ship standard; system supports up to two hot plug U320 drives<br><b>NOTE: The HP ProLiant DL360 G4 SCSI models only support U320 Universal Hot Plug drives.</b> |
| Remote Management  | Integrated Lights-Out (iLO) Standard Management (embedded)   |
| Power Supply       | One 460W power supply (redundant power supply optional)  |
| Optical Drive      | 24x IDE CD-ROM Drive (Low-profile)   |
| Diskette Drive     | 1.44 MB Diskette Drive   |
| PCI-X Slots        | 1 full length and 1 half length 64bit/133MHz PCI-X slot  |
| Form Factor        | Rack (1U), (1.75 in/4.45 cm)   |

DL360R04p X3.0-  
2MB/800, 1GB SCSI  
380325-xx1

|                    |  |
|--------------------|--|
| Processor          | (1) Intel Xeon Processor 3.0 GHz/800MHz standard (up to 2 supported)   |
| Cache Memory       | 2MB level 2 cache  |
| Memory             | 1 GB (2 x 512 MB) Standard to 12 GB (Maximum) of PC2-3200 DDR2 400 SDRAM   |
| Network Controller | Embedded NC7782 PCI-X Gigabit Server Adapter   |
| Storage Controller | Smart Array 6i Controller (U320, embedded on system board)<br><b>NOTE: The HP ProLiant DL360 G4p does not offer an external SCSI port.</b>                           |
| Hard Drives        | None ship standard; system supports up to two hot plug U320 drives<br><b>NOTE: The HP ProLiant DL360 G4 SCSI models only support U320 Universal Hot Plug drives.</b> |
| Remote Management  | Integrated Lights-Out (iLO) Standard Management (embedded)   |
| Power Supply       | One 460W power supply (redundant power supply optional)  |
| Optical Drive      | 24x IDE CD-ROM Drive (Low-profile)   |
| Diskette Drive     | 1.44 MB Diskette Drive   |
| PCI-X Slots        | 1 full length and 1 half length 64bit/133MHz PCI-X slot  |
| Form Factor        | Rack (1U), (1.75 in/4.45 cm)   |

# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Models

#### SATA Models

DL360R04p X3.6-  
2MB/800, 1GB SATA  
378704-xx1

|                    |   |
|--------------------|---|
| Processor          | (1) Intel Xeon Processor 3.6 GHz/800MHz standard (up to 2 supported)  |
| Cache Memory       | 2MB level 2 cache   |
| Memory             | 1 GB (2 x 512 MB) Standard to 12 GB (Maximum) of PC2-3200 DDR2 400 SDRAM  |
| Network Controller | Embedded NC7782 PCI-X Gigabit Server Adapter  |
| Storage Controller | Embedded SATA controller<br><b>NOTE:</b> The HP embedded 2 Port SATA controller does not support RAID, hot plug drive functionality or drive activity LEDs.<br><b>NOTE:</b> SATA RAID 0, 1 is available with the optional purchase of the HP 8-port SAS HBA (347786-B21) and HP SAS/SATA Cable Kit (398307-B21) - hot-plug drive functionality and drive activity LEDs not supported. |
| Hard Drives        | None ship standard; system supports up to two Serial ATA drives   |
| Remote Management  | Integrated Lights-Out (iLO) Standard Management (embedded)  |
| Power Supply       | One 460W power supply (redundant power supply optional)   |
| Optical Drive      | Optical Drives not supported on SATA Models   |
| Diskette Drive     | Optional floppy on SATA Models  |
| PCI-X Slots        | 1 full length and 1 half length 64bit/133MHz PCI-X slot   |
| Form Factor        | Rack (1U), (1.75 in/4.45 cm)  |

DL360R04p X3.4-  
2MB/800, 1GB SATA  
380078-xx1

|                    |   |
|--------------------|---|
| Processor          | (1) Intel Xeon Processor 3.4 GHz/800MHz standard  |
| Cache Memory       | 2MB level 2 cache   |
| Memory             | 1 GB (2 x 512 MB) Standard to 12 GB (Maximum) of PC2-3200 DDR2 400 SDRAM  |
| Network Controller | Embedded NC7782 PCI-X Gigabit Server Adapter  |
| Storage Controller | Embedded SATA controller<br><b>NOTE:</b> The HP embedded 2 Port SATA controller does not support RAID, hot plug drive functionality or drive activity LEDs.<br><b>NOTE:</b> SATA RAID 0, 1 is available with the optional purchase of the HP 8-port SAS HBA (347786-B21) and HP SAS/SATA Cable Kit (398307-B21) - hot-plug drive functionality and drive activity LEDs not supported. |
| Hard Drives        | None ship standard; system supports up to two Serial ATA drives   |
| Remote Management  | Integrated Lights-Out (iLO) Standard Management (embedded)  |
| Power Supply       | One 460W power supply (redundant power supply optional)   |
| Optical Drive      | Optical Drives not supported on SATA Models   |
| Diskette Drive     | Optional floppy on SATA Models  |
| PCI-X Slots        | 1 full length and 1 half length 64bit/133 MHz PCI-X slot  |
| Form Factor        | Rack (1U), (1.75 in/4.45 cm)  |

# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Models

DL360R04p X3.2-  
2MB/800, 1GB SATA  
379752-xx1

|                           |   |
|---------------------------|---|
| <b>Processor</b>          | (1) Intel Xeon Processor 3.2 GHz/800MHz standard (up to 2 supported)  |
| <b>Cache Memory</b>       | 2MB level 2 cache   |
| <b>Memory</b>             | 1 GB (2 x 512 MB) Standard to 12 GB (Maximum) of PC2-3200 DDR2 400 SDRAM  |
| <b>Network Controller</b> | Embedded NC7782 PCI-X Gigabit Server Adapter  |
| <b>Storage Controller</b> | Embedded SATA controller<br><b>NOTE:</b> The HP embedded 2 Port SATA controller does not support RAID, hot plug drive functionality or drive activity LEDs.<br><b>NOTE:</b> SATA RAID 0, 1 is available with the optional purchase of the HP 8-port SAS HBA (347786-B21) and HP SAS/SATA Cable Kit (398307-B21) - hot-plug drive functionality and drive activity LEDs not supported. |
| <b>Hard Drives</b>        | None ship standard; system supports up to two Serial ATA drives   |
| <b>Remote Management</b>  | Integrated Lights-Out (iLO) Standard Management (embedded)  |
| <b>Power Supply</b>       | One 460W power supply (redundant power supply optional)   |
| <b>Optical Drive</b>      | Optical Drives not supported on SATA Models   |
| <b>Diskette Drive</b>     | Optional floppy on SATA Models  |
| <b>PCI-X Slots</b>        | 1 full length and 1 half length 64bit/133 MHz PCI-X slot  |
| <b>Form Factor</b>        | Rack (1U), (1.75 in/4.45 cm)  |

DL360R04p X3.0-  
2MB/800, 1GB SATA  
380324-xx1

|                           |   |
|---------------------------|---|
| <b>Processor</b>          | (1) Intel Xeon Processor 3.0 GHz/800MHz standard (up to 2 supported)  |
| <b>Cache Memory</b>       | 2MB level 2 cache   |
| <b>Memory</b>             | 1 GB (2 x 512 MB) Standard to 12 GB (Maximum) of PC2-3200 DDR2 400 SDRAM  |
| <b>Network Controller</b> | Embedded NC7782 PCI-X Gigabit Server Adapter  |
| <b>Storage Controller</b> | Embedded SATA controller<br><b>NOTE:</b> The HP embedded 2 Port SATA controller does not support RAID, hot plug drive functionality or drive activity LEDs.<br><b>NOTE:</b> SATA RAID 0, 1 is available with the optional purchase of the HP 8-port SAS HBA (347786-B21) and HP SAS/SATA Cable Kit (398307-B21) - hot-plug drive functionality and drive activity LEDs not supported. |
| <b>Hard Drives</b>        | None ship standard; system supports up to two Serial ATA drives   |
| <b>Remote Management</b>  | Integrated Lights-Out (iLO) Standard Management (embedded)  |
| <b>Power Supply</b>       | One 460W power supply (redundant power supply optional)   |
| <b>Optical Drive</b>      | Optical Drives not supported on SATA Models   |
| <b>Diskette Drive</b>     | Optional floppy on SATA Models  |
| <b>PCI-X Slots</b>        | 1 full length and 1 half length 64bit/133 MHz PCI-X slot  |
| <b>Form Factor</b>        | Rack (1U), (1.75 in/4.45 cm)  |

### Country Code Key

XX=00  
XX=20  
XX=29  
XX=37  
XX=42  
XX=AA

### Rack Code Key

US  
Brazil  
Japan  
APD  
EURO  
PRC



# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Configuration Information - Factory Integrated Models (North America only)

**NOTE:** For Configure to Order requirements within EMEA region, please consult local Sales Contact.

**NOTE:** HP does not allow factory integration of options into standard models listed above.

Configure-to-order servers must start with a CTO Chassis.

**NOTE:** This product offering does not support HP Factory Express Server Configuration Level 1.

**NOTE:** FIO indicates that this option only available as a Factory Installable Option.

### Step 1: Base Configuration (choose one of the following configurable models)

|        |  |            |
|--------|--|------------|
| Models | HP ProLiant DL360G4p SATA Rack CTO Chassis (North America)             | 382146-405 |
|        | <b>Factory Integrated Model ships with:</b>                            |            |
|        | Embedded NC7782 PCI-X Gigabit Server Adapter                           |            |
|        | Embedded SATA Controller (SATA RAID functionality is available via OS) |            |
|        | Integrated Lights-Out (iLO) embedded                                   |            |
|        | 1 full length and 1 half length 64-bit/133 MHz PCI-X slot              |            |
|        | 7 fans; N+1 fan redundancy   |            |
|        | Rack (1U), (1.75 in/4.45 cm)   |            |
|        | HP ProLiant DL360G4p SCSI Rack CTO Chassis (North America)             | 382147-405 |
|        | <b>Factory Integrated Model ships with:</b>                            |            |
|        | Embedded NC7782 PCI-X Gigabit Server Adapter                           |            |
|        | Smart Array 6i Controller (Ultra320 SCSI, RAID, embedded)              |            |
|        | Integrated Lights-Out (iLO) embedded                                   |            |
|        | 1 full length and 1 half length 64-bit/133 MHz PCI-X slots             |            |
|        | 1.44MB Diskette Drive  |            |
|        | 7 fans; N+1 fan redundancy   |            |
|        | Rack (1U), (1.75 in/4.45 cm)   |            |
|        | HP ProLiant DL360G4p SAS Rack CTO Chassis (North America)              | 389831-405 |
|        | <b>Factory Integrated Model ships with:</b>                            |            |
|        | Embedded NC7782 PCI-X Gigabit Server Adapter                           |            |
|        | Integrated Lights-Out (iLO) embedded                                   |            |
|        | 1 full length and 1 half length 64-bit/133 MHz PCI-X slots             |            |
|        | 7 fans; N+1 fan redundancy   |            |
|        | Rack (1U), (1.75 in/4.45 cm)   |            |

### Step 1A: If SAS Model, Choose SAS Starter Kit or Controller (only one of the following)

|                 |   |            |
|-----------------|---|------------|
| SAS Controller  | HP Smart Array P600/256 BBWC Controller   | 337972-B21 |
|                 | <b>NOTE:</b> This is a required selection if one of the two following SAS Starter Kits is not selected. If choosing this part number, 2.5" SAS hard drives must still be selected under Step 4. |            |
| SAS Starter Kit | <b>NOTE:</b> SAS Starter Kits are not compatible with the SCSI or SATA models.  |            |
|                 | SAS Starter Kit - 36GB  | 396221-B21 |
|                 | <b>NOTE:</b> Includes Smart Array P600/256 BBWC Controller and (2) 36GB SFF SAS Universal Hard Drives.  |            |
|                 | SAS Starter Kit - 72GB  | 396220-B21 |
|                 | <b>NOTE:</b> Includes Smart Array P600/256 BBWC Controller and (2) 72GB SFF SAS Universal Hard Drives.  |            |

# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Configuration Information - Factory Integrated Models (North America only)

#### Step 2: Choose Required Options (only one of the following from each list unless otherwise noted)

|   |   |            |
|---|---|------------|
| <b>Processors</b>   | Intel X2.8GHz/800-2MB DL360G4 FIO processor   | 399042-L21 |
|   | Intel X3.0GHz/800-2MB DL360G4 FIO processor   | 380327-L21 |
|   | Intel X3.0GHz/800-2M LV DL360G4 FIO processor   | 394921-L21 |
|   | Intel X3.2GHz/800-2MB DL360G4 FIO processor   | 379817-L21 |
|   | Intel X3.4GHz/800-2MB DL360G4 FIO processor   | 376243-L21 |
|   | Intel X3.6GHz/800-2MB DL360G4 FIO processor   | 376242-L21 |
|   | Intel X3.8GHz/800-2M DL360G4 FIO processor  | 376241-L21 |
|   | <b>NOTE:</b> Dual-core processor is supported on HP ProLiant DL360 G4p Serial Attached SCSI (SAS) model only.   |            |
| <b>Base Memory</b>  | 1 GB Advanced ECC PC2-3200 DDR2 SDRAM DIMM Memory Kit (2 x 512 MB)  | 343055-B21 |
|   | 2 GB Advanced ECC PC2-3200 DDR2 SDRAM DIMM Memory Kit (2 x 1 GB)  | 343056-B21 |
|   | 4 GB Advanced ECC PC2-3200 DDR2 SDRAM DIMM Memory Kit (2 x 2 GB)  | 343057-B21 |
| <b>Optical Drive</b><br>(may or may not be required. See notes)   | <b>NOTE:</b> Optical Drives are OPTIONAL if choosing the (389831-405) SAS Rack CTO Chassis Model or (382146-405) SATA Rack CTO Chassis Model in Step 1. |            |
|   | <b>NOTE:</b> An Optical Drive is REQUIRED if choosing the 382147-405 SCSI Rack CTO Chassis Model in Step 1.   |            |
|   | Slimline CD-RW/DVD-ROM Combo Option Kit   | 331903-B21 |
|   | <b>NOTE:</b> This CD-RW/DVD-ROM Drive (PN 331903-B21) is for SAS and SCSI models. It is not supported in SATA models.                                   |            |
|   | Slimline DVD-ROM Drive (8X/24X) Option Kit  | 264007-B21 |
| <b>NOTE:</b> This DVD-ROM Drive (PN 264007-B21) is for SAS and SCSI models. It is not supported in SATA models. |   |            |
| Slimline CD-ROM Drive 24X   | 356963-B21  |            |
| <b>NOTE:</b> This CD-ROM Drive (PN 356963-B21) is the only drive that will support SATA models.                 |   |            |

#### Step 3: Choose Additional Factory Integratable Options

|   |   |            |
|---|---|------------|
| <b>Diskette Drive</b>   | Slimline Ejectable Floppy Drive   | 390164-B21 |
|   | <b>NOTE:</b> This Diskette Drive is for SAS (389831-405) models.  |            |
|   | 1.44 MB Diskette drive  | 354588-B21 |
|   | <b>NOTE:</b> This Diskette Drive is for SATA (382146-405) models  |            |
| <b>Optical Drive</b>  | <b>NOTE:</b> Optical Drives are OPTIONAL if choosing the (389831-405) SAS Rack CTO Chassis Model or (382146-405) SATA Rack CTO Chassis Model in Step 1. |            |
|   | <b>NOTE:</b> An Optical Drive is REQUIRED if choosing the 382147-405 SCSI Rack CTO Chassis Model in Step 1.   |            |
|   | Slimline DVD-ROM Drive (8X/24X) Option Kit  | 264007-B21 |
|   | <b>NOTE:</b> This DVD-ROM Drive (PN 264007-B21) is for SAS and SCSI models. It is not supported in SATA models.   |            |
|   | Slimline CD-ROM Drive 24X   | 356963-B21 |
| <b>NOTE:</b> This CD-ROM Drive (PN 356963-B21) is the only drive that will support SATA models.                       |   |            |
| Slimline CD-RW/DVD-ROM Combo Option Kit   | 331903-B21  |            |
| <b>NOTE:</b> This CD-RW/DVD-ROM Drive (PN 331903-B21) is for SAS and SCSI models. It is not supported in SATA models. |   |            |

# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Configuration Information - Factory Integrated Models (North America only)

|              |   |            |
|--------------|---|------------|
| Power Supply | 460W HP redundant power supply with IEC cord only<br><b>NOTE:</b> For SCSI and SATA Models. | 354587-B21 |
|              | 535W HP redundant power supply with IEC cord only<br><b>NOTE:</b> For SAS Models.           | 389830-B21 |
|              | 535W HP redundant power supply with NEMA or Japan cord only<br><b>NOTE:</b> for SAS Models. | 389830-001 |

### Step 4: Choose Additional Options for Factory Integration

**NOTE:** For additional options, please refer to the "Options" section below.

# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Options

**NOTE:** Some options may not be factory integratable. Please contact your local sales representative for additional information.

|   |   |            |
|---|---|------------|
| <b>HP ProLiant DL360 G4p Unique Options</b> | Intel Xeon Dual-core 2.8 GHz/800MHz-2x2MB 135W Processor Option Kit<br><b>NOTE:</b> This processor option kit (PN 408585-B21) supports the HP ProLiant DL360 G4p SAS only.  | 408585-B21 |
|   | Intel Xeon 2.8G Hz/800MHz-2MB 110W Processor Option Kit<br><b>NOTE:</b> This processor option kit (PN 399042-B21) supports the HP ProLiant DL360 G4p only.  | 399042-B21 |
|   | Intel Xeon 3.0 GHz/800MHz-2MB 110W Processor Option Kit<br><b>NOTE:</b> This processor option kit (PN 380327-B21) supports the HP ProLiant DL360 G4p only.  | 380327-B21 |
|   | Intel Xeon 3.0 GHz/800MHz-2MB 55W Low Voltage Processor Option Kit<br><b>NOTE:</b> This processor option kit (PN 394921-B21) supports the HP ProLiant DL360 G4p only.   | 394921-B21 |
|   | Intel Xeon 3.2 GHz/800MHz-2MB 110W Processor Option Kit<br><b>NOTE:</b> This processor option kit (PN 379817-B21) supports the HP ProLiant DL360 G4p only.  | 379817-B21 |
|   | Intel Xeon 3.4 GHz/800MHz-2MB 110W Processor Option Kit<br><b>NOTE:</b> This processor option kit (PN 376243-B21) supports the HP ProLiant DL360 G4p only.  | 376243-B21 |
|   | Intel Xeon 3.6 GHz/800MHz-2MB 110W Processor Option Kit<br><b>NOTE:</b> This processor option kit (PN 376242-B21) supports the HP ProLiant DL360 G4p only.  | 376242-B21 |
|   | Intel Xeon 3.8 GHz/800MHz-2MB 110W Processor Option Kit<br><b>NOTE:</b> This processor option kit (PN 376241-B21) supports the HP ProLiant DL360 G4p only.  | 376241-B21 |
|   | PCI-e Riser option (to convert one or both PCI-X to PCI-e slots)  | 354589-B21 |
|   | 460W HP redundant power supply with IEC cord only   | 354587-B21 |
|   | 460W HP redundant power supply with US or Japanese NEMA cord only<br><b>NOTE:</b> The HP ProLiant DL360 G4p ships with an IEC-IEC power cord used for rack mounting with Power Distribution Units (PDUs). For stand-alone deployments or installation without a rack, country-specific power cord options are available. U.S., Japan, & APD models ship with two power cords: IEC-IEC and NEMA cords. | 354587-001 |
|   | 535W HP redundant power supply with IEC cord only   | 389830-B21 |
|   | 535W HP redundant power supply with US or Japanese NEMA cord only<br><b>NOTE:</b> The HP ProLiant DL360 G4p ships with an IEC-IEC power cord used for rack mounting with Power Distribution Units (PDUs). For stand-alone deployments or installation without a rack, country-specific power cord options are available. U.S., Japan, & APD models ship with two power cords: IEC-IEC and NEMA cords. | 389830-001 |

### ProLiant Essentials Value Pack Software

#### ProLiant Essentials Intelligent Networking Pack

ProLiant Essentials Intelligent Networking Pack - Windows Edition, Single Server License

**NOTE:** For use with a single server. Contains one license with a unique license activation key and documentation.

**NOTE:** For additional ProLiant Intelligent Networking Pack License Kits please see the QuickSpecs at:

[http://h18000.www1.hp.com/products/quickspecs/12062\\_div/12062\\_div.HTML](http://h18000.www1.hp.com/products/quickspecs/12062_div/12062_div.HTML)

ProLiant Essentials Intelligent Networking Pack - Linux Edition, Single Server License



### Options

**NOTE:** For additional ProLiant Intelligent Networking Pack - Linux License Kits please see the QuickSpecs at:

[http://h18000.www1.hp.com/products/quickspecs/12327\\_div/12327\\_div.HTML](http://h18000.www1.hp.com/products/quickspecs/12327_div/12327_div.HTML)

#### ProLiant Essentials Performance Management Pack

ProLiant Essentials Performance Management Pack, Single-Server License 306696-B21

**NOTE:** For use with a single server. Contains one license with a unique license activation key, HP Management CD and documentation.

**NOTE:** The most recent version of the software can always be downloaded at <http://www.hp.com/products/pmp>.

**NOTE:** For additional ProLiant Performance Management Pack License Kits please see the QuickSpecs at:

[http://h18000.www1.hp.com/products/quickspecs/11925\\_div/11925\\_div.HTML](http://h18000.www1.hp.com/products/quickspecs/11925_div/11925_div.HTML)

#### ProLiant Essentials Rapid Deployment Pack Windows Edition Release

Rapid Deployment Pack, Single-Server License 267196-B21

**NOTE:** This license allows 1 server to be deployed and managed via RDP.

Rapid Deployment Pack, Single-Server License (Japan) 267196-291

**NOTE:** This license allows 1 server to be deployed and managed via RDP.

**NOTE:** For additional ProLiant Essentials Rapid Deployment Pack License Kits please see the QuickSpecs at:

[http://h18000.www1.hp.com/products/quickspecs/11053\\_div/11053\\_div.HTML](http://h18000.www1.hp.com/products/quickspecs/11053_div/11053_div.HTML)

#### ProLiant Essentials Workload Management Pack

ProLiant Essentials Workload Management Pack, Single Server License 303284-B21

**NOTE:** For additional ProLiant Workload Management Pack License Kits please see the QuickSpecs at:

[http://h18000.www1.hp.com/products/quickspecs/11452\\_div/11452\\_div.HTML](http://h18000.www1.hp.com/products/quickspecs/11452_div/11452_div.HTML)

#### ProLiant Essentials Virtualization Management Software

ProLiant Essentials Virtual Machine Management Pack, Single-Server License 435661-B21

**NOTE:** For use with a single server. Contains one license with a unique license activation key and documentation.

ProLiant Essentials Server Migration Pack, Single-Migration License 435663-B21

**NOTE:** Contains one license, enabling 1 server migration, with a unique license activation key and documentation.

ProLiant Essentials Server Migration Pack - Physical to ProLiant Edition, Single-Migration License 412978-B21

**NOTE:** This license allows 1 server to be migrated from a physical server to a virtual machine. Or this license can be used to migrate a virtual machine from one virtualization layer i.e. VMware GSX to a different virtualization layer such as VMware ESX or Microsoft Virtual Server 2005.

**NOTE:** For additional ProLiant Essentials Virtualization Management Software License Kits please see the QuickSpecs at:

[http://h18000.www1.hp.com/products/quickspecs/12328\\_div/12328\\_div.HTML](http://h18000.www1.hp.com/products/quickspecs/12328_div/12328_div.HTML)

#### ProLiant Essentials Vulnerability and Patch Management Pack

ProLiant Essentials Vulnerability and Patch Management Pack, Single-Server License 371645-B21

**NOTE:** For use with a single server. Contains one license with a unique license activation key and documentation.

**NOTE:** For additional ProLiant Vulnerability and Patch Management Pack License Kits, please see the QuickSpecs at:

[http://h18000.www1.hp.com/products/quickspecs/12111\\_div/12111\\_div.HTML](http://h18000.www1.hp.com/products/quickspecs/12111_div/12111_div.HTML)



# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Options

**NOTE:** Flexible and volume quantity license kits are available for ProLiant Essentials Value Packs. Refer to <http://www.hp.com/servers/proliantessentials> or the various ProLiant Essentials Value Pack product QuickSpecs for more information.

**NOTE:** For more information regarding ProLiant Essentials Software, please see the following URL: <http://www.hp.com/servers/proliantessentials>.

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|   |   |            |
|---|---|------------|
| <b>Remote Management</b>                          | <b>Integrated Lights-Out Advanced Pack</b>  |            |
|   | Integrated Lights-Out Advanced Pack, 1 server   | 263825-B21 |
|   | <b>Featuring:</b> Sophisticated virtual administration features for ultimate control of servers in the data centers and remote sites.   |            |
|   | <b>NOTE:</b> For additional Integrated Light-Out Advanced Pack License Kits please see the QuickSpecs at:<br><a href="http://h18000.www1.hp.com/products/quickspecs/11052_div/11052_div.HTML">http://h18000.www1.hp.com/products/quickspecs/11052_div/11052_div.HTML</a>              |            |
| <b>ProLiant Software Maintenance Subscription</b> | ProLiant Software Maintenance Subscription  | 355060-B21 |
|   | ProLiant Software Maintenance Single Release  | 356573-B21 |
|   | ProLiant Foundation Pack Single Release   | 356604-B21 |
|   | <b>NOTE:</b> Please see the SmartStart QuickSpecs for additional information regarding the subscription purchase:<br><a href="http://h18000.www1.hp.com/products/quickspecs/Division/11073.html">http://h18000.www1.hp.com/products/quickspecs/Division/11073.html</a><br>(Worldwide) |            |
| <b>Processor</b>                                  | Intel Xeon 2.8 GHz/800MHz-2MB 110W Processor Option Kit   | 399042-B21 |
|   | <b>NOTE:</b> This processor option kit (PN 399042-B21) supports the HP ProLiant DL360 G4p only.   |            |
|   | Intel Xeon 3.0 GHz/800MHz-2MB 110W Processor Option Kit   | 380327-B21 |
|   | <b>NOTE:</b> This processor option kit (PN 380327-B21) supports the HP ProLiant DL360 G4p only.   |            |
|   | Intel Xeon 3.0 GHz/800MHz-2MB 55W Processor Option Kit, Low Voltage   | 394921-B21 |
|   | <b>NOTE:</b> This processor option kit (PN 394921-B21) supports the HP ProLiant DL360 G4p only.   |            |
|   | Intel Xeon 3.2 GHz/800MHz-2MB 110W Processor Option Kit   | 379817-B21 |
|   | <b>NOTE:</b> This processor option kit (PN 379817-B21) supports the HP ProLiant DL360 G4p only.   |            |
|   | Intel Xeon 3.4 GHz/800MHz-2MB 110W Processor Option Kit   | 376243-B21 |
|   | <b>NOTE:</b> This processor option kit (PN 376243-B21) supports the HP ProLiant DL360 G4p only.   |            |
|   | Intel Xeon 3.6 GHz/800MHz-2MB 110W Processor Option Kit   | 376242-B21 |
|   | <b>NOTE:</b> This processor option kit (PN 376242-B21) supports the HP ProLiant DL360 G4p only.   |            |
|   | Intel Xeon 3.8 GHz/800MHz-2MB 110W Processor Option Kit   | 376241-B21 |
|   | <b>NOTE:</b> This processor option kit (PN 376241-B21) supports the HP ProLiant DL360 G4p only.   |            |

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# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Options

|                   |  |            |
|-------------------|--|------------|
| Memory<br>(DIMMs) | 1 GB Advanced ECC PC2-3200 DDR2 SDRAM DIMM Memory Kit (2 x 512 MB)           | 343055-B21 |
|                   | 2 GB Advanced ECC PC2-3200 DDR2 SDRAM DIMM Memory Kit (2 x 1 GB)             | 343056-B21 |
|                   | 4 GB Advanced ECC PC2-3200 DDR2 SDRAM DIMM Single Rank Memory Kit (2 x 2 GB) | 343057-B21 |
|                   | 4 GB Advanced ECC PC2-3200 DDR2 SDRAM DIMM Dual Rank Memory Kit (2 x 2 GB)   | 375004-B21 |

|                |  |            |
|----------------|--|------------|
| Optical Drives | Slimline CD-RW/DVD-ROM Combo Option Kit  | 331903-B21 |
|                | <b>NOTE:</b> This CD-RW/DVD-ROM Drive (PN 331903-B21) is for SCSI and SAS models only. It is not supported in SATA models. |            |
|                | Slimline DVD-ROM Drive (8X/24X) Option Kit (Servers)   | 264007-B21 |
|                | <b>NOTE:</b> This DVD-ROM Drive (PN 264007-B21) is supported on SCSI and SAS models.                                       |            |
|                | Slimline CD-ROM Drive 24X  | 356963-B21 |
|                | <b>NOTE:</b> This CD-ROM Drive (PN 356963-B21) is the only drive that will support SATA models.                            |            |
|                | HP DVD±R/RW 8X Slim  | 383975-B21 |
|                | <b>NOTE:</b> This DVD±R/RW 8X Slim (PN 383975-B21) is supported on SCSI and SAS models.                                    |            |

|                |  |            |
|----------------|--|------------|
| Diskette Drive | Slimline Ejectable Floppy drive  | 390164-B21 |
|                | <b>NOTE:</b> This Diskette Drive is for SAS models only.   |            |
|                | 1.44 MB Diskette Drive   | 354588-B21 |
|                | <b>NOTE:</b> This 1.44MB Diskette Drive (PN 354588-B21) is supported on SCSI and SATA models only. |            |
|                | <b>NOTE:</b> Ships standard in SCSI models.  |            |

|   |   |            |
|---|---|------------|
| Hard Drives   | <b>Ultra320 – Hot Plug</b>  |            |
|   | <b>NOTE:</b> The HP ProLiant DL360 G4p SCSI models support U320 Universal Hot Plug drives.  |            |
|   | HP 300GB U320 10K Universal HDD   | 350964-B22 |
|   | HP 146GB U320 10K Universal HDD   | 286716-B22 |
|   | HP 72GB U320 10K Universal HDD  | 286714-B22 |
|   | HP 300GB U320 15K Universal HDD   | 411089-B22 |
|   | HP 146GB U320 15K Universal HDD   | 347708-B22 |
|   | HP 72GB U320 15K Universal HDD  | 286778-B22 |
|   | HP 36GB U320 15K Universal HDD  | 286776-B22 |
|   | <b>NOTE:</b> Please see the Hard Drive QuickSpecs for Technical Specifications such as capacity, height, width, interface, transfer rate, seek time, physical configuration, and operating temperature:<br><a href="http://h18000.www1.hp.com/products/quickspecs/11531_div/11531_div.HTML">http://h18000.www1.hp.com/products/quickspecs/11531_div/11531_div.HTML</a><br>(Worldwide) |            |
| <b>Serial-ATA (SATA) Hot Plug Hard Drive (For use with SATA Models)</b>   |   |            |
| <b>NOTE:</b> The HP embedded 2 Port SATA controller does not support RAID, hot plug drive functionality or drive activity LEDs. |   |            |
| HP 750GB 1.5G SATA 7.2K 3.5" HDD  | 432341-B21  |            |

# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Options

|                                  |            |
|----------------------------------|------------|
| HP 500GB 1.5G SATA 7.2K 3.5" HDD | 395473-B21 |
| HP 250GB 1.5G SATA 7.2K 3.5" HDD | 349239-B21 |
| HP 160GB 1.5G SATA 7.2K 3.5" HDD | 349238-B21 |
| HP 80GB 1.5G SATA 7.2K 3.5" HDD  | 349237-B21 |

#### SFF SATA Hot Plug

|                                |            |
|--------------------------------|------------|
| HP 60GB 1.5G SATA 5.4K SFF HDD | 379306-B21 |
|--------------------------------|------------|

**NOTE:** SATA drives have a 1-year warranty. Please see the SATA Hard Drive QuickSpecs for Technical Specifications such as capacity, height, width, interface, transfer rate, seek time, physical configuration, and operating temperature:  
[http://h18000.www1.hp.com/products/quickspecs/11940\\_div/11940\\_div.HTML](http://h18000.www1.hp.com/products/quickspecs/11940_div/11940_div.HTML)  
(Worldwide)

#### Serial Attached SCSI (SAS) SFF Hot Plug (For use with SAS Models)

|                                |            |
|--------------------------------|------------|
| HP 146GB 3G SAS 10K SFF SP HDD | 431958-B21 |
| HP 72GB 3G SAS 10K SFF SP HDD  | 375861-B21 |
| HP 36GB 3G SAS 10K SFF SP HDD  | 375859-B21 |

**NOTE:** All SFF SAS Universal Hard Drives are supported ONLY by HP ProLiant DL360 G4p SAS models.

**NOTE:** Please see the SAS Hard Drive QuickSpecs for Technical Specifications such as capacity, height, width, interface, transfer rate, seek time, physical configuration, and operating temperature:  
[http://h18000.www1.hp.com/products/quickspecs/12224\\_div/12224\\_div.HTML](http://h18000.www1.hp.com/products/quickspecs/12224_div/12224_div.HTML)  
(Worldwide)

### Storage Controllers

#### SCSI Controllers

|   |            |
|---|------------|
| 128MB Battery Backed Write Cache Enabler Option Kit | 346914-B21 |
|---|------------|

**NOTE:** Upgrade for Smart Array 6i Controller.

|                                 |            |
|---------------------------------|------------|
| Smart Array 6402/128 Controller | 273915-B21 |
|---------------------------------|------------|

**NOTE:** For support of external drives only.

|                                 |            |
|---------------------------------|------------|
| Smart Array 6404/256 Controller | 273914-B21 |
|---------------------------------|------------|

**NOTE:** For support of external drives only.

|                            |            |
|----------------------------|------------|
| Smart Array 642 Controller | 291967-B21 |
|----------------------------|------------|

**NOTE:** For support of external drives only.

|                                    |            |
|------------------------------------|------------|
| 128MB Battery-Backed Cache Enabler | 351580-B21 |
|------------------------------------|------------|

**NOTE:** This 128MB BBWC supports the Smart Array 641 Controller and Smart Array 642 Controller.

|                                       |            |
|---------------------------------------|------------|
| Ultra320 Expansion Module for SA-6402 | 273911-B21 |
|---------------------------------------|------------|

**NOTE:** For support of external drives only.

|  |            |
|--|------------|
| 64-Bit/133-MHz Single Channel Ultra320 SCSI HBA G2 | 374654-B21 |
|--|------------|

**NOTE:** Please see the following QuickSpecs for Technical Specifications and additional information:

[http://h18000.www1.hp.com/products/quickspecs/12030\\_div/12030\\_div.HTML](http://h18000.www1.hp.com/products/quickspecs/12030_div/12030_div.HTML)  
(Smart Array 6i)

[http://h18000.www1.hp.com/products/quickspecs/11587\\_div/11587\\_div.HTML](http://h18000.www1.hp.com/products/quickspecs/11587_div/11587_div.HTML)  
(Smart Array 6400 Series)

[http://h18000.www1.hp.com/products/quickspecs/11563\\_div/11563\\_div.HTML](http://h18000.www1.hp.com/products/quickspecs/11563_div/11563_div.HTML)  
(Smart Array 642)

[http://h18000.www1.hp.com/products/quickspecs/11943\\_div/11943\\_div.HTML](http://h18000.www1.hp.com/products/quickspecs/11943_div/11943_div.HTML)  
(U320 SCSI G2 HBA)



# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Options

#### SAS Controller

##### Smart Array P600 Controller

HP Smart Array P600/256 BBWC Controller 337972-B21

512MB DDR BBWC Upgrade 372538-B21

**NOTE:** Ships standard with SAS model.

**NOTE:** Please see the following QuickSpecs for Technical Specifications and additional information:

[http://h18000.www1.hp.com/products/quickspecs/12247\\_div/12247\\_div.HTML](http://h18000.www1.hp.com/products/quickspecs/12247_div/12247_div.HTML)  
(Smart P600 Controller)

#### SAS HBA

HP 8 Internal Port SAS HBA with RAID 347786-B21

**NOTE:** Supports SAS/SATA models. RAID 0,1 supported.

**NOTE:** Please see the HBA QuickSpecs for additional information:

[http://h18004.www1.hp.com/products/quickspecs/12332\\_div/12332\\_div.html](http://h18004.www1.hp.com/products/quickspecs/12332_div/12332_div.html)

HP SATA/SAS 1U Cable Kit 398307-B21

**NOTE:** Required for HP SAS/SATA HBA use with HP ProLiant DL360 G4p SATA models.

### Communications

HP NC150T PCI 4-port Gigabit 1000T Combo Switch Adapter 367132-B21

HP NC310F PCI-X 1000SX Gigabit Server Adapter 368169-B21

HP NC320T PCI Express 1000T Gigabit Server Adapter 367047-B21

HP NC360T PCI Express Dual Port Gigabit Server Adapter 412648-B21

HP NC373F PCI Express Multifunction Gigabit Server Adapter 394793-B21

HP NC373T PCI Express Multifunction Gigabit Server Adapter 394791-B21

HP NC380T PCI Express Dual Port Multifunction Gigabit Server Adapter 394795-B21

HP NC510F PCIe 10 Gigabit Server Adapter 414126-B21

**NOTE:** A minimum of 1 gigabyte (1 GB) of server memory is required per each NC510F adapter.

HP NC510C PCIe 10 Gigabit Server Adapter 414129-B21

**NOTE:** A minimum of 1 gigabyte (1 GB) of server memory is required per each NC510C adapter.

HP NC1020 PCI 1000T Gigabit Server Adapter 353377-B21

HP NC7771 PCI-X 1000T Gigabit Server Adapter 290563-B21

**NOTE:** Any NIC (except the NC1020) on the option list can be used for redundancy with the embedded NC7782 Dual Port Network Controller. When teaming with other NICs or with the embedded NIC, the lack of Jumbo Frames and LSO features on the NC1020 will cause high end NICs to have those features disabled. (e.g. incompatibility issues with the other option NICs for that platform).

HP IB 4X SDR PCI-e single PORT HCA 431038-B21

HP IB 4X DDR PCI-e Single PORT HCA 431039-B21

### Management Options

Remote Insight Lights-Out Edition II (NA, LA) 227251-001

Remote Insight Lights-Out Edition II (EMEA) 227251-021

Remote Insight Lights-Out Edition II (ROW) 227251-371

### Options

#### Tape Drives

**NOTE:** For the complete listing of Tape Drive offerings, please see:

<http://www.hp.com/products1/storage/compatibility/tapebackup/ISS/index.html>

For recommended tape drive offerings for this ProLiant server see the following:

##### USB Tape Drives

HP StorageWorks DAT 72 USB Internal Tape Drive (Carbonite)

DW026A

**NOTE:** HP recommends combining this tape drive with the 1U USB Rack-Mount kit (A8007A) for a complete rack-mount solution.

##### Ultrium Tape Drives

HP StorageWorks Ultrium 232 Internal Tape Drive (Carbonite)

DW064A

**NOTE:** HP recommends combining this tape drive with the 1U SCSI Rack-Mount kit (A7445B) for a complete rack-mount solution.

HP StorageWorks 3U SCSI Rack-mount kit with one Ultrium 460 (Carbon)

350546-B22

HP StorageWorks 1U SCSI Rack-mount kit with one Ultrium 448 SCSI Tape Drive (Carbonite)

DW028B

HP StorageWorks 1U SCSI Rack-mount kit with one Ultrium 920

EH903A

HP StorageWorks 3U SCSI Rack-mount kit with one Ultrium 960 (Carbonite)

Q1595B

**NOTE:** Please see the HP StorageWorks Ultrium Tape Drive QuickSpecs for additional options such as controllers, media, and other related items:

[http://h18006.www1.hp.com/products/quickspecs/11739\\_div/11739\\_div.html](http://h18006.www1.hp.com/products/quickspecs/11739_div/11739_div.html)  
(Worldwide)

[http://h18006.www1.hp.com/products/quickspecs/12128\\_div/12128\\_div.html](http://h18006.www1.hp.com/products/quickspecs/12128_div/12128_div.html)  
(Worldwide)

For an up-to-date listing of the latest O/S and software support details for HP Ultrium tape drives, please visit: <http://www.hp.com/go/connect>

##### Rack-Mount Tape Drive Enclosures

HP StorageWorks 1U Rack-Mount Kit

A7445B

**NOTE:** The 1U Rack-Mount Kit can support up to (2) half-height tape drives and is compatible with multiple Single-Ended and LVD SCSI tape drives including the DAT 24, DAT 40, DAT 72, DLT VS80, DLT VS160, Ultrium 215, Ultrium 232, Ultrium 448 and Ultrium 920 tape drives.

HP StorageWorks 1U USB Rack-Mount Kit

A8007A

**NOTE:** The 1U USB Rack-Mount Kit can support up to (2) half-height tape drives and is compatible with the DAT 24 USB, DAT 40 USB and DAT 72 USB tape drives.

HP StorageWorks 3U Rack-Mount Kit

274338-B22

**NOTE:** The 3U Rack-mount Kit can support up to (2) full-height or (4) half-height tape drives and compatible with multiple LVD SCSI tape drives including DAT 40, DAT 72, DLT VS160, SDLT 320, SDLT 600, Ultrium 232, Ultrium 460, Ultrium 448, Ultrium 920 and Ultrium 960 tape drives.

**NOTE:** Please see the Rack-Mount Tape Drive Kits QuickSpecs for additional information regarding these kits:

[http://h18000.www1.hp.com/products/quickspecs/10854\\_div/10854\\_div.HTML](http://h18000.www1.hp.com/products/quickspecs/10854_div/10854_div.HTML)  
(Worldwide)

# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Options

#### Tape Autoloaders

##### HP StorageWorks DAT Autoloader

HP StorageWorks DAT 72x10 tape autoloader AE313A

##### HP StorageWorks 1/8 Tape Autoloader

HP StorageWorks 1/8 Ultrium 920 G2 Tape Autoloader AH165A

HP StorageWorks 1/8 Ultrium 448 G2 Tape Autoloader AH164A

HP StorageWorks 1/8 Ultrium 232 G2 Tape Autoloader AH163A

HP StorageWorks 1/8 G2 Tape Autoloader Rack Kit AH166A

**NOTE:** Required to install the 1/8 G2 Autoloaders in a standard 19-inch rack; includes rails and rackmount instructions

**NOTE:** Please reference the Tape Autoloader QuickSpecs at

<http://www.hp.com/go/automation> for additional information needed to create a complete solution; reference current compatibility information at

<http://www.hp.com/go/ebs>.

#### Tape Libraries

##### HP StorageWorks MSL2024 Tape Library

HP StorageWorks MSL2024 1 Ultrium 960 Drive Library AG115A

HP StorageWorks MSL2024 1 Ultrium 960 4GB FC Drive Library AG326B

HP StorageWorks MSL2024 1 Ultrium 920 Drive Library AH169A

HP StorageWorks MSL2024 2 Ultrium 920 Drive Library AH170A

HP StorageWorks MSL2024 1 Ultrium 448 Drive Library AG116A

HP StorageWorks MSL2024 2 Ultrium 448 Drive Library AG117A

##### HP StorageWorks MSL4048 Tape Library

HP StorageWorks MSL4048 1 Ultrium 448 Drive Library AG320A

HP StorageWorks MSL4048 2 Ultrium 448 Drive Library AG321A

HP StorageWorks MSL4048 1 Ultrium 920 Drive Library AH171A

HP StorageWorks MSL4048 2 Ultrium 920 Drive Library AH172A

HP StorageWorks MSL4048 1 Ultrium 960 Drive Library AG322A

HP StorageWorks MSL4048 1 Ultrium 960 4GB FC Drive Library AG324B

HP StorageWorks MSL4048 2 Ultrium 960 Drive Library AG323A

HP StorageWorks MSL4048 2 Ultrium 960 4GB FC Drive Library AG325B

##### HP StorageWorks MSL6000 Tape Library

###### Ultrium 960 technology

HP StorageWorks MSL6030 1 Ultrium 960 Dr LVDS Library AD606B

HP StorageWorks MSL6030 1 Ultrium 960 Dr FC Library AD608B

HP StorageWorks MSL6030 2 Ultrium 960 Dr LVDS Library AD607B

HP StorageWorks MSL6030 2 Ultrium 960 Dr FC Library AD609B

###### Ultrium 460 technology

HP StorageWorks MSL6030 1 Ultrium 460 Dr LVDS Library AD598B

HP StorageWorks MSL6030 1 Ultrium 460 Dr FC Library AD600B

HP StorageWorks MSL6030 2 Ultrium 460 Dr LVDS Library AD599B

HP StorageWorks MSL6030 2 Ultrium 460 Dr FC Library AD601B

**NOTE:** Please reference the MSL2024, MSL4048, and MSL6000 Tape Library

QuickSpecs at <http://www.hp.com/go/automation> for additional information needed to create a complete solution; reference current compatibility information at

<http://www.hp.com/go/ebs>.

# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Options

#### Power Cords

**NOTE:** The HP ProLiant DL360 G4p ships with an IEC-IEC power cord used for rack mounting with Power Distribution Units (PDUs). For stand-alone deployments or installation without a rack, country-specific power cord options are available. U.S. & Japan models will ship with two power cords: IEC-IEC (142257-002) and North American C13-Nema 5-15P (103541-001) cords.

|  |            |
|--|------------|
| Power Cord, Euro, 10A 250 V Straight (12 ft/3.7 m)         | 157215-021 |
| Power Cord, UK, 10A 250 V Straight (12 ft/3.7 m)           | 157216-031 |
| Power Cord, Danish, 10A 250 V Straight (12 ft/3.7 m)       | 157218-081 |
| Power Cord, Swiss, 10A 250 V Straight (12 ft/3.7 m)        | 157219-111 |
| Power Cord, Italian, 10A 250 V Straight (12 ft/3.7 m)      | 157217-061 |
| Power Cord, South Africa, 10A 250 V Straight (12 ft/3.7 m) | 157220-AR1 |

#### HP StorageWorks Modular Smart Array 20

HP StorageWorks Modular Smart Array 20 335921-B21  
**NOTE:** Rack-mountable 12 (SATA) drive enclosure with U320 Host connectivity, redundant power supplies.

HP StorageWorks Modular Smart Array 20 Starter Kit 366172-B21  
**NOTE:** Rack-mountable 12 (SATA) drive enclosure with U320 Host connectivity, redundant power supplies. Includes Smart Array 6402/128 Controller.  
**NOTE:** The Modular Smart Array Enclosure 20 Family supports the SATA 1.5Gb/s 3.5" Hot Plug Hard Drives.

#### HP StorageWorks Modular Smart Array 30

HP StorageWorks Modular Smart Array 30 SB 302969-B21  
**NOTE:** Rack-mountable 14 drive enclosure with single bus, redundant power supplies  
HP StorageWorks Modular Smart Array 30 DB 302970-B21  
**NOTE:** Rack-mountable 14 drive enclosure with dual bus, redundant power supplies  
**NOTE:** The Modular Smart Array Enclosure 30 Family supports the Wide Ultra3, Ultra320 Hot Plug Hard Drives.

#### HP StorageWorks Modular Smart Array 50

HP StorageWorks Modular Smart Array 50 Enclosure 364430-B21  
**NOTE:** Please see the Modular Smart Array 50 QuickSpecs for additional information including configuration steps and additional options needed for a complete solution at:  
[http://h18000.www1.hp.com/products/quickspecs/12245\\_div/12245\\_div.HTML](http://h18000.www1.hp.com/products/quickspecs/12245_div/12245_div.HTML)  
(Worldwide)

#### HP StorageWorks Modular Smart Array 500

HP StorageWorks Modular Smart Array 500 Generation 2 335880-B21  
**NOTE:** Please see the Modular Smart Array 500 Generation 2 QuickSpecs for additional information including configuration steps and additional options needed for a complete solution at:  
[http://h18000.www1.hp.com/products/quickspecs/11956\\_div/11956\\_div.HTML](http://h18000.www1.hp.com/products/quickspecs/11956_div/11956_div.HTML)  
(Worldwide)

# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Options

|  |   |            |
|--|---|------------|
| HP StorageWorks Modular Smart Array 1000 | HP StorageWorks Modular Smart Array 1000<br><b>NOTE:</b> Please see the Modular Smart Array 1000 QuickSpecs for additional options and configuration information at <a href="http://h18000.www1.hp.com/products/quickspecs/11033_div/11033_div.HTML">http://h18000.www1.hp.com/products/quickspecs/11033_div/11033_div.HTML</a> (Worldwide) | 201723-B22 |
|--|---|------------|

|   |   |        |
|---|---|--------|
| HP StorageWorks Modular Smart Array 1500 cs | Modular Smart Array 1500 Controller Shelf<br><b>NOTE:</b> Please see the StorageWorks Modular SAN Array 1500 cs QuickSpecs for additional options and configuration information at: <a href="http://www.hp.com/go/MSA1500cs">http://www.hp.com/go/MSA1500cs</a> | AA986A |
|---|---|--------|

|                      |  |        |
|----------------------|--|--------|
| StorageWorks Options | <b>NOTE:</b> The following is a list of all Fibre Channel Host Bus Adapters for Windows, Linux and Netware. For detailed compatibility information please see: <a href="http://h18006.www1.hp.com/storage/saninfrastructure/hba.html">http://h18006.www1.hp.com/storage/saninfrastructure/hba.html</a> |        |
|                      | HP StorageWorks FC2142SR 4Gb PCI-e HBA   | A8002A |
|                      | HP StorageWorks FC2242SR Dual Channel 4 Gb PCI-e HBA   | A8003A |
|                      | HP StorageWorks FC1142SR 4Gb PCI-e HBA   | AE311A |
|                      | HP StorageWorks FC1242SR Dual Channel 4 Gb PCI-e HBA   | AE312A |
|                      | HP StorageWorks FC2143 4Gb PCI-X 2.0 -to-Fibre Channel HBA   | AD167A |
|                      | HP StorageWorks FC2243 Dual Channel 4Gb PCI-X 2.0 HBA  | AD168A |
|                      | HP StorageWorks FC1143 4Gb PCI-X 2.0 HBA   | AB429A |
|                      | HP StorageWorks FC1243 Dual Channel 4Gb PCI-X 2.0 HBA  | AE369A |

|                 |  |             |
|-----------------|--|-------------|
| Cluster Options | ProLiant Cluster Starter Kit<br><b>NOTE:</b> For additional information regarding the ProLiant Cluster Starter Kit please see the following QuickSpecs at: <a href="http://h18000.www1.hp.com/products/quickspecs/11935_div/11935_div.html">http://h18000.www1.hp.com/products/quickspecs/11935_div/11935_div.html</a> (Worldwide)                                   | 364023-B22  |
|                 | HP HA/F200 for Entry SAN Cluster<br><b>NOTE:</b> For additional information regarding the ProLiant Cluster for Entry Level SAN please see the following QuickSpecs at: <a href="http://h18000.www1.hp.com/products/quickspecs/11932_div/11932_div.html">http://h18000.www1.hp.com/products/quickspecs/11932_div/11932_div.html</a> (Worldwide)                       | 364026-B22  |
|                 | ProLiant Cluster HA/F500 for the Enterprise SAN<br><b>NOTE:</b> For additional information regarding the ProLiant Cluster HA/F500 for Enterprise SAN please see the following QuickSpecs at: <a href="http://h18000.www1.hp.com/products/quickspecs/11933_div/11933_div.html">http://h18000.www1.hp.com/products/quickspecs/11933_div/11933_div.html</a> (Worldwide) | 364024-B21  |
|                 | HP Serviceguard for Linux ProLiant Cluster A.11.16 for SUSE SLES 9 & 10 and Red Hat EL 3 & 4 (2 node license cluster kit)  | 305199-B26  |
|                 | HP Serviceguard for Linux A.11.16 for SUSE SLES 9 & 10 and Red Hat EL 3 & 4 (single license version)   | 307754-B26  |
|                 | HP Serviceguard for Linux and Red Hat Global File System - 1 year subscription   | T2798AA#001 |
|                 | HP Serviceguard for Linux and Red Hat Global File System - 3 years subscription  | T2798AA#003 |





# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Options

**NOTE:** For additional information regarding HP Serviceguard for Linux, please see the following QuickSpecs at:

[http://h18000.www1.hp.com/products/quickspecs/11518\\_div/11518\\_div.html](http://h18000.www1.hp.com/products/quickspecs/11518_div/11518_div.html)  
(Worldwide)

|  |   |        |
|--|---|--------|
| <b>Uninterruptible Power Systems – Rack Mountable</b>            | HP, R1.5kVA UPS, 1U, NA   | AF419A |
|  | HP, R1.5kVA UPS, 1U, INTL   | AF418A |
|  | HP, R1.5kVA UPS, 1U, JPN/TW   | AF421A |
|  | HP R3000 VA UPS, 2U, DTC, INTL  | AF414A |
|  | <b>NOTE:</b> Replaces non-RoHs compliant part numbers 192186-B31, 192186-B32, 192186-B33, 192186-AR1. |        |
|  | HP R3000 VA UPS, 2U, L5-30, NA  | AF422A |
|  | <b>NOTE:</b> Replaces non-RoHs compliant part number 192186-001.                                      |        |
|  | HP R3000 VA UPS, 2U, L6-20, NA  | AF423A |
|  | <b>NOTE:</b> Replaces non-RoHs compliant part number 192186-002.                                      |        |
|  | HP R3000 VA UPS, 2U, L6-20, JPN   | AF424A |
|  | <b>NOTE:</b> Replaces non-RoHs compliant part number 192186-292.                                      |        |
|  | HP R3000 VA UPS, 2U, L5-30, JPN   | AF425A |
|  | <b>NOTE:</b> Replaces non-RoHs compliant part number 192186-291.                                      |        |
| HP R5500 VA UPS, INTL  | AF416A  |        |
| <b>NOTE:</b> Replaces non-RoHs compliant part number 326529-B31. |   |        |
| HP R5500 VA UPS, NA/JPN  | AF426A  |        |
| <b>NOTE:</b> Replaces non-RoHs compliant part number 326529-D71. |   |        |

|  |  |        |
|--|--|--------|
| <b>HP Monitored Power Distribution Unit (PDU)</b>                | <b>HP Monitored Power Distribution Unit: Full Rack Version</b>   |        |
|  | HP 17.3 kVA S2324 Monitored PDU- dual input, 3U, 24A (NA/JPN)    | AF503A |
|  | <b>NOTE:</b> Replaces non-RoHs compliant part number 370959-D71. |        |
|  | HP 8.3 kVA S1324 Monitored PDU- single input, 3U, 24A (NA/JPN)   | AF504A |
|  | <b>NOTE:</b> Replaces non-RoHs compliant part number 370960-D71. |        |
|  | HP 16.6 kVA S2140 Monitored PDU- dual input, 1U, 40A (NA/JPN)    | AF505A |
|  | <b>NOTE:</b> Replaces non-RoHs compliant part number 37061-D71.  |        |
|  | HP 8.6 S1140 Monitored PDU- single input, 1U, 40A (NA/JPN)       | AF506A |
|  | <b>NOTE:</b> Replaces non-RoHs compliant part number 370962-D71. |        |
|  | HP 22.1 kVA S2316 Monitored PDU- dual input, 3U, 16A (INTL)      | AF507A |
| <b>NOTE:</b> Replaces non-RoHs compliant part number 370963-B31. |  |        |
| HP 11 kVA S1316 Monitored PDU- single input, 3U, 16A (INTL)      | AF508A   |        |
| <b>NOTE:</b> Replaces non-RoHs compliant part number 370964-B31. |  |        |
| HP 14.7 kVA S2132 Monitored PDU- dual input, 1U, 32A (INTL)      | AF509A   |        |
| <b>NOTE:</b> Replaces non-RoHs compliant part number 370965-B31. |  |        |
| HP 7.3kVA S1132 Monitored PDU- single input, 1U, 32A (INTL)      | AF510A   |        |
| <b>NOTE:</b> Replaces non-RoHs compliant part number 370966-B31. |  |        |

# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Options

|  |   |            |
|--|---|------------|
| <b>Modular PDUs 1U/0U</b><br>(Up to 32 outlets)<br><b>NOTE:</b> 1U/0U mounting brackets shipped with the unit (optimized for 10000 and 9000 series racks).   | Fixed Cord Extension Bars   | 351655-B21 |
|  | <b>NOTE:</b> Two extension bar sticks; each with (7) C13 plugs.   |            |
|  | Fixed Cord PDU (NA/JPN)   | 351655-D72 |
|  | <b>NOTE:</b> Four Fixed Cord Extension Bars, and one 24A, HV mPDU L6-30P core.                          |            |
|  | Fixed Cord PDU (INTL)   | 351655-B31 |
|  | <b>NOTE:</b> Four Fixed Cord Extension Bars, and one 32A, HV mPDU IEC-309 core.                         |            |
|  | HP Modular Power Distribution Units (mPDU), Low Volt Model, 24A (100-127 VAC) (NA, Japan)               | 252663-D71 |
|  | <b>NOTE:</b> This mPDU (252663-D71) may also be used to connect the low volt model of the UPS R3000 XR. |            |
|  | HP Modular Power Distribution Units (mPDU), High Volt Model, 24A (200-240 VAC) (NA, Japan)              | 252663-D72 |
|  | HP Modular Power Distribution Units (mPDU), High Volt Model, 32A (200-240 VAC) (Int'l)                  | 252663-B31 |
| HP Modular Power Distribution Units (mPDU), High Volt Model, 40A (200-240 VAC) (WW)  | 252663-B21  |            |
| <b>NOTE:</b> This mPDU (252663-B21), 40A model has a hardwired input.  |   |            |
| HP Modular Power Distribution Unit(mPDU), High Volt Model, 16A (200-240 VAC) (WW)  | 252663-B24  |            |
| HP Modular Power Distribution Unit (mPDU), High Volt Model, 40A, Attached Cord, (NA/JPN)   | 252663-D73  |            |
| HP Modular Power Distribution Unit (mPDU), High Volt Model, 40A, Attached Cord, (Int'l)  | 252663-B32  |            |
| <b>NOTE:</b> This PDU has a detachable input power cord and allows for adaptability to country specific power requirements. This model may also be used with the high volt UPSs R3000 XR and R6000 For North America, need to order cable PN 340653-001.   |   |            |
| <b>NOTE:</b> Please see the following Modular Power Distribution Unit (Zero-U/1U Modular PDUs) QuickSpecs for additional options including shorter jumper cables and country specific power cords:<br><a href="http://h18000.www1.hp.com/products/quickspecs/11041_div/11041_div.HTML">http://h18000.www1.hp.com/products/quickspecs/11041_div/11041_div.HTML</a><br>(Worldwide) |   |            |

|                    |   |            |
|--------------------|---|------------|
| <b>USB Options</b> | HP USB 2-Button Optical Scroll Mouse (Carbonite/Silver) | DC172B     |
|                    | HP USB 04 Standard Keyboard                             | DT528A#xxx |
|                    | USB 2.0 4-port HUB                                      | DG954A     |
|                    | HP 1GB Drive Key II- USB 2.0 Flash Drive                | AG382AA    |
|                    | HP 512MB DriveKey II- USB Flash Drive                   | ED516AA    |

# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Options

|   |  |                         |
|---|--|-------------------------|
| HP ProLiant DL360 G4p<br>Deployment Options                 | 460W HP redundant power supply with IEC cord only  | 354587-B21              |
|   | 460W HP redundant power supply with US or Japanese NEMA cord only  | 354587-001              |
|   | <b>NOTE:</b> The HP ProLiant DL360 G4p ships with a single IEC-IEC power cord used for rack mounting with Power Distribution Units (PDUs). For stand-alone deployments or installation without a rack, country-specific power cord options are available. U.S., Japan, & APD models ship with two power cords: IEC-IEC and NEMA cords.   |                         |
|   | 535W HP redundant power supply with IEC cord only  | 389830-B21              |
|   | 535W HP redundant power supply with US or Japanese NEMA cord only  | 389830-001              |
|   | <b>NOTE:</b> The HP ProLiant DL360 G4p ships with an IEC-IEC power cord used for rack mounting with Power Distribution Units (PDUs). For stand-alone deployments or installation without a rack, country-specific power cord options are available. U.S., Japan, & APD models ship with two power cords: IEC-IEC and NEMA cords.   |                         |
|   | <hr/>  |                         |
|   | <b>Rack Kits</b>   | 1U Cable Management Arm |
|   | <b>NOTE:</b> Package contains two cable management arms.   |                         |
| <hr/>   |  |                         |
| HP Rack 5000 Series<br>(Graphite Metallic)                  | HP 5642 Rack Unassembled   | 358254-B21              |
|   | <b>NOTE:</b> Please see the HP Rack 5642 QuickSpecs for additional part numbers and Technical Specifications such as height, width, depth, weight, and color:<br><a href="http://h18000.www1.hp.com/products/quickspecs/12074_div/12074_div.HTML">http://h18000.www1.hp.com/products/quickspecs/12074_div/12074_div.HTML</a><br>(Worldwide)<br><b>NOTE:</b> For additional information regarding Rack Cabinets, please see the following URL: <a href="http://www.hp.com/go/rackandpower">http://www.hp.com/go/rackandpower</a> .  |                         |
| <hr/>   |  |                         |
| HP Rack 10000 G2<br>Series<br>(Carbon/Graphite<br>Metallic) | 10642 G2 (42U) Rack Cabinet - Pallet   | AF001A                  |
|   | 10642 G2 (42U) Rack Cabinet - Shock Pallet   | AF002A                  |
|   | 10642 G2 (42U) Rack Cabinet - Crated   | AF003A                  |
|   | 10642 G2 (42U) Rack Cabinet, with Extension - Shock Pallet   | AF004A                  |
|   | 10636 G2 (36U) Rack Cabinet - Pallet   | AF011A                  |
|   | 10636 G2 (36U) Rack Cabinet - Shock Pallet   | AF012A                  |
|   | 10636 G2 (36U) Rack Cabinet - Crated   | AF013A                  |
|   | 10636 G2 (36U) Rack Cabinet, with Extension - Shock Pallet   | AF014A                  |
|   | <b>NOTE:</b> It is mandatory to use a shock pallet when shipping racks with equipment installed.<br><b>NOTE:</b> Please see the Rack 10000 G2 QuickSpecs for Technical Specifications such as height, width, depth, weight, and color:<br><a href="http://h18000.www1.hp.com/products/quickspecs/12402_div/12402_div.HTML">http://h18000.www1.hp.com/products/quickspecs/12402_div/12402_div.HTML</a><br>(Worldwide)<br><b>NOTE:</b> For additional information regarding Rack Cabinets, please see the following URL: <a href="http://www.hp.com/go/rackandpower">http://www.hp.com/go/rackandpower</a> . |                         |

# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Options

|   |  |            |
|---|--|------------|
| HP Rack 10000 Series<br>(Graphite Metallic) | 10642 (42U) Infrastructure Rack (Low Voltage)    | 379006-001 |
|   | 10642 (42U) Infrastructure Rack (High Voltage)   | 379005-001 |
|   | HP Rack S10614 (14U) Rack Cabinet - Shock Pallet | 292302-B22 |
|   | HP Rack 10842 (42U, 800mm wide) – Pallet         | 257415-B21 |
|   | HP Rack 10842 (42U, 800mm wide) – Shock Pallet   | 257415-B22 |
|   | HP Rack 10647 (47U) – Pallet                     | 245160-B21 |
|   | HP Rack 10647 (47U) – Crated                     | 245160-B23 |
|   | HP Rack 10622 (22U) – Pallet                     | 245163-B21 |
|   | HP Rack 10622 (22U) – Shock Pallet               | 245163-B22 |
|   | HP Rack 10622 (22U) – Crated                     | 245163-B23 |

**NOTE:** xxxxx-B21 (pallet) used to ship empty racks shipped on a truck. -B22 (shock pallet) used to ship racks with equipment installed (by custom systems, VARs and Channels). xxxxx-B23 (crated) used for air shipments of empty racks.

**NOTE:** It is mandatory to use a shock pallet in order to ship racks with equipment installed. Not all HP equipment is qualified to be shipped in the Rack 10000 series

**NOTE:** Please see the Rack 10000 QuickSpecs for Technical Specifications such as height, width, depth, weight, and color:

[http://h18000.www1.hp.com/products/quickspecs/10995\\_div/10995\\_div.HTML](http://h18000.www1.hp.com/products/quickspecs/10995_div/10995_div.HTML)  
(Worldwide)

**NOTE:** For additional information regarding Rack Cabinets, please see the following URL: <http://www.hp.com/go/rackandpower>

|                        |  |            |
|------------------------|--|------------|
| Keyboards and Monitors | TFT7210R Rack Mounted 17" Monitor  | 348373-B21 |
|                        | <b>NOTE:</b> For a complete list of Monitors please view the following URL:<br><a href="http://www.hp.com/go/kvm">http://www.hp.com/go/kvm</a> |            |
|                        | TFT7600 Rackmount Keyboard Monitor US  | AG052A     |
|                        | TFT7600 Rackmount Keyboard Monitor UK  | AG053A     |
|                        | TFT7600 Rackmount Keyboard Monitor GR  | AG054A     |
|                        | TFT7600 Rackmount Keyboard Monitor FR  | AG055A     |
|                        | TFT7600 Rackmount Keyboard Monitor IT  | AG056A     |
|                        | TFT7600 Rackmount Keyboard Monitor SP  | AG057A     |
|                        | TFT7600 Rackmount Keyboard Monitor DEN   | AG058A     |
|                        | TFT7600 Rackmount Keyboard Monitor NOR   | AG059A     |
|                        | TFT7600 Rackmount Keyboard Monitor SE/FI   | AG060A     |
|                        | TFT7600 Rackmount Keyboard Monitor SWI   | AG061A     |
|                        | TFT7600 Rackmount Keyboard Monitor PORT  | AG062A     |
|                        | TFT7600 Rackmount Keyboard Monitor BEL   | AG063A     |
|                        | TFT7600 Rackmount Keyboard Monitor JPN2  | AG064A     |
|                        | TFT7600 Rackmount Keyboard Monitor RUS   | AG065A     |
|                        | TFT7600 Rackmount Keyboard Monitor INTL  | AG066A     |
|                        | 1U Rackmount Keyboard with USB, US   | AG072A     |
|                        | 1U Rackmount Keyboard with USB, UK   | AG073A     |
|                        | 1U Rackmount Keyboard with USB, GR   | AG074A     |
|                        | 1U Rackmount Keyboard with USB, FR   | AG075A     |
|                        | 1U Rackmount Keyboard with USB, ITL  | AG076A     |



# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Options

|                                       |        |
|---------------------------------------|--------|
| 1U Rackmount Keyboard with USB, SP    | AG077A |
| 1U Rackmount Keyboard with USB, DEN   | AG078A |
| 1U Rackmount Keyboard with USB, NOR   | AG079A |
| 1U Rackmount Keyboard with USB, SE/FI | AG080A |
| 1U Rackmount Keyboard with USB, SWI   | AG081A |
| 1U Rackmount Keyboard with USB, PORT  | AG082A |
| 1U Rackmount Keyboard with USB, BEL   | AG083A |
| 1U Rackmount Keyboard with USB, JPN2  | AG084A |
| 1U Rackmount Keyboard with USB, RUS   | AG085A |
| 1U Rackmount Keyboard with USB, INTL  | AG086A |

**NOTE:** For additional information regarding Rack Options, please see the following URL: <http://www.hp.com/go/rackandpower>

|                       |   |            |
|-----------------------|---|------------|
| HP KVM Switch Options | 2x1x16 IP Console Switch with Virtual Media   | AF601A     |
|                       | 4x1x16 IP Console Switch with Virtual Media   | AF602A     |
|                       | 2x16 Server Console Switch with Virtual Media   | AF600A     |
|                       | PS/2 Virtual Media Interface Adapter, 1 pack  | AF604A     |
|                       | <b>NOTE:</b> Requires PS/2 and one USB port on server.  |            |
|                       | Server Console Switch (KVM), 0 x 1 x 8 port   | 336044-B21 |
|                       | Server Console Switch (KVM), 0 x 2 x 16 port  | 336045-B21 |
|                       | PS/2 Interface Adapter, 1 pack  | 262588-B21 |
|                       | PS/2 Interface Adapter, 8 pack  | 262587-B21 |
|                       | USB Interface Adapter, 1 pack   | 336047-B21 |
|                       | Serial Interface adapter - 1 Pack with power supply   | 373035-B21 |
|                       | <b>NOTE:</b> Cat5e cables are required to connect Interface Adapters to Console Switches. Cat5e cables can be found at the following URL: <a href="http://www.hp.com/go/kvm">http://www.hp.com/go/kvm</a> . |            |
|                       | HP 1x 4 USB/PS2 KVM Switch, TT (NA/JPN)   | 371301-D71 |
|                       | HP 1x 4 USB/PS2 KVM Switch, TT (AU/NZ)  | 371301-011 |

HP 1x 4 USB/PS2 KVM Switch, TT (UK) 371301-031  
HP 1x 4 USB/PS2 KVM Switch, TT (EU) 371301-A21  
HP 1x 4 USB/PS2 KVM Switch, RM (ALL) 371302-B21  
HP PS2 KVM Cable with audio, 6', 2-pack 371730-B21  
HP USB KVM Cable with audio, 6', 2-pack 371729-B21

**NOTE:** For additional information regarding KVM switches, Serial Console servers, rack mount monitors, keyboards and all related options please see the following URL: <http://www.hp.com/go/kvm>.

# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Options

|   |  |        |
|---|--|--------|
| <b>HP Serial Console Server Options</b> | HP 16 Port Serial Console Server (worldwide) | AF101A |
|   | HP 48 Port Serial Console Server (worldwide) | AF102A |
|   | Serial Adapter, RJ45-DB9 DCE Female, 1 Pack  | AF103A |
|   | Serial Adapter, RJ45-DB9 DCE Female, 8 Pack  | AF110A |

**NOTE:** Cat5e cables are required to connect Serial Adapters to Serial Console Servers. Additional Serial Adapters and Cat5e cables can be found at the following URL: <http://www.hp.com/go/kvm>.

**NOTE:** For additional information regarding KVM switches, Serial Console servers, rack mount monitors, keyboards and all related options please see the following URL: <http://www.hp.com/go/kvm>.

### Service and Support Offerings (HP Care Pack Services)

#### **Hardware Services 4-Hour On-site Service**

|   |        |
|---|--------|
| 4-Hour On-site Service, 5-Day x 13-Hour Coverage, 3 Years, Electronic | U4496E |
| 4-Hour On-site Service, 7-Day x 24-Hour Coverage, 3 Years, Electronic | U4497E |

#### **Hardware Services 6-Hour Call to Repair On-site Service**

|   |        |
|---|--------|
| 6-Hour Call to Repair, On-site Service, 7-Day x 24-Hour Coverage, 3 Years, Electronic | U4498E |
|---|--------|

#### **Hardware Services Next Business Day On-Site Service**

|  |        |
|--|--------|
| Hardware Installation, Electronic  | U4506E |
| Installation & Start-Up of a ProLiant server and Microsoft or Linux O/S per the Customer Description and/or Data Sheet. To be delivered on a scheduled basis 8am-5pm, M-F, excl. HP holidays, Electronic | U4507E |

#### **Support Plus**

|  |        |
|--|--------|
| Onsite HW support, 8am-9pm, M-F, 4hr response and Microsoft O/S SW Tech support offsite, onsite at HP's discretion, 8am-9pm, M-F 2hr response time excl. HP holidays, Electronic | U4508E |
|--|--------|

#### **Support Plus 24**

|  |        |
|--|--------|
| Onsite HW support 24x7, 4hr response and Microsoft O/S SW Tech support offsite, onsite at HP's discretion, 24x7 2hr response time incl. HP holidays, Electronic    | U4509E |
| Onsite HW support 24x7, 4hr response and SuSE Linux SW Tech support offsite, onsite at HP's discretion, 24x7 2hr response time incl. HP holidays, Electronic       | U6310E |
| Onsite HW support 24x7, 4hr response and Red Hat ES Linux SW Tech support offsite, onsite at HP's discretion, 24x7 2hr response time incl. HP holidays, Electronic | U8332E |

**NOTE:** For more information, customer/resellers can contact <http://www.hp.com/services/carepack>.

# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Memory

**NOTE:** Memory configurations listed do not apply to "Factory Integrated Models".

#### HP ProLiant DL360 G4p Standard Models

##### Standard Memory

1 GB PC2-3200 DDR2 400 Registered SDRAM DIMM installed (2 x 512 MB SDRAM DIMM)

##### Upgrading Memory and Memory Interleaving

When upgrading memory, DIMMs 1A and 2A must match. DIMMs 3B and 4B, and DIMMs 5C and 6C must match and must be installed as a pair. When DIMMs 1A and 2A are populated the system is automatically configured for 2:1 interleaving. When four or six DIMMs are populated with identical DIMMs the system is automatically configured for bank interleaving.

##### Standard Memory Plus Optional Memory

Up to 9 GB memory is available with the standard memory of 1 GB and the optional installation of PC2-3200 DDR2 400 Registered SDRAM DIMM memory kits.

##### Standard Memory Replaced with Optional Memory

Up to 12 GB of memory is available with the removal of the standard 512 MB of memory and the optional installation of PC2-3200 DDR2 400 Registered SDRAM DIMM memory kits.

**NOTE:** Chart does not represent all possible configurations.

| Memory   |       | Slot   |        |       |       |       |       |
|----------|-------|--------|--------|-------|-------|-------|-------|
|          |       | 1      | 2      | 3     | 4     | 5     | 6     |
| Standard | 1 GB  | 512 MB | 512 MB | Empty | Empty | Empty | Empty |
| Optional | 9 GB  | 512 MB | 512 MB | 2 GB  | 2 GB  | 2 GB  | 2 GB  |
| Maximum  | 12 GB | 2 GB   | 2 GB   | 2 GB  | 2 GB  | 2 GB  | 2 GB  |

**NOTE:** In the online spare configuration, the ROM automatically configures the last populated bank as the spare memory. If only banks A and B are populated, bank B is the spare bank. If banks A, B, and C are populated, bank C is the spare bank, Online spare memory is configured through RBSU.

Following are memory options available from HP:

- 1 GB Advanced ECC PC2-3200 DDR2 SDRAM DIMM Memory Kit (2 x 512 MB) 343055-B21
- 2 GB Advanced ECC PC2-3200 DDR2 SDRAM DIMM Memory Kit (2 x 1 GB) 343056-B21
- 4 GB Advanced ECC PC2-3200 DDR2 SDRAM DIMM Single Rank Memory Kit (2 x 2 GB) 343057-B21
- 4 GB Advanced ECC PC2-3200 DDR2 SDRAM DIMM Dual Rank Memory Kit (2 x 2 GB) 375004-B21

# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Memory

#### HP ProLiant DL360 G4p RPS Models

##### Standard Memory

2 GB PC3200 DDR 400 Registered SDRAM DIMM installed (2 x 1 GB SDRAM DIMM)

##### Upgrading Memory and Memory Interleaving

When upgrading memory, DIMMs 1A and 2A must match. DIMMs 3B and 4B, and DIMMs 5C and 6C must match and must be installed as a pair. When DIMMs 1A and 2A are populated the system is automatically configured for 2:1 interleaving. When four or six DIMMs are populated with identical DIMMs the system is automatically configured for bank interleaving.

##### Standard Memory Plus Optional Memory

Up to 10 GB memory is available with the standard memory of 2 GB and the optional installation of PC2-3200 DDR2 400 Registered SDRAM DIMM memory kits.

##### Standard Memory Replaced with Optional Memory

Up to 12 GB of memory is available with the removal of the standard 1 GB of memory and the optional installation of PC2-3200 DDR2 400 Registered SDRAM DIMM memory kits.

**NOTE:** Chart does not represent all possible configurations.

| Memory   |       | Slot |      |       |       |       |       |
|----------|-------|------|------|-------|-------|-------|-------|
|          |       | 1    | 2    | 3     | 4     | 5     | 6     |
| Standard | 2 GB  | 1 GB | 1 GB | Empty | Empty | Empty | Empty |
| Optional | 10 GB | 1 GB | 1 GB | 2 GB  | 2 GB  | 2 GB  | 2 GB  |
| Maximum  | 12 GB | 2 GB | 2 GB | 2 GB  | 2 GB  | 2 GB  | 2 GB  |

**NOTE:** In the online spare configuration, the ROM automatically configures the last populated bank as the spare memory. If only banks A and B are populated, bank B is the spare bank. If banks A, B, and C are populated, bank C is the spare bank, Online spare memory is configured through RBSU.

Following are memory options available from HP:

- 1 GB Advanced ECC PC2-3200 DDR2 SDRAM DIMM Memory Kit (2 x 512 MB) 343055-B21
- 2 GB Advanced ECC PC2-3200 DDR2 SDRAM DIMM Memory Kit (2 x 1 GB) 343056-B21
- 4 GB Advanced ECC PC2-3200 DDR2 SDRAM DIMM Single Rank Memory Kit (2 x 2 GB) 343057-B21
- 4 GB Advanced ECC PC2-3200 DDR2 SDRAM DIMM Dual Rank Memory Kit (2 x 2 GB) 375004-B21

**NOTE:** Online Spare Memory is not supported when using 2-rank DIMMs. A total of 8 ranks are supported on the HP ProLiant DL360 G4p, A maximum of 4, 2-rank DIMMs can be populated. If you plan to mix DIMM types, 2-rank DIMMs must be installed in the first bank, 1 rank DIMMs can then be installed in subsequent banks.

The following is the memory population rules for the HP ProLiant ProLiant DL360 G4p.

**Key:** S denotes single rank kit, D denotes Dual rank kit, and X denotes no install.

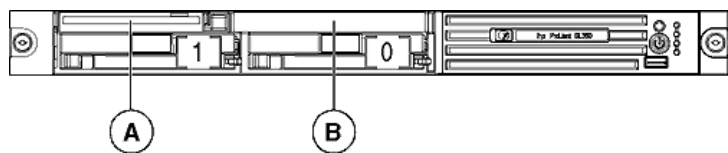
| Bank A | Bank B | Bank C | NOTES:                     |
|--------|--------|--------|----------------------------|
| S      | X      | X      |                            |
| S      | S      | X      |                            |
| S      | S      | S      |                            |
| D      | X      | X      | Online spare not supported |
| D      | S      | X      | Online spare not supported |
| D      | S      | S      | Online spare not supported |
| D      | D      | X      | Online spare not supported |



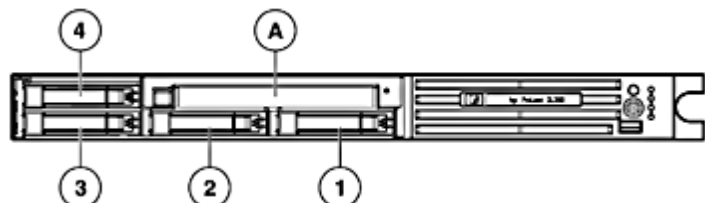
# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Storage



- 1,0 Two Ultra320 Hot Pluggable Hard Drive Bays; SATA model also available
- A 1.44-MB Diskette Drive (removeable)
- B Low-Profile 24x IDE CD-ROM (ejectable)



- 1,2,3,4 Four SFF Serial Attached SCSI Hot Pluggable Hard Drive Bays
- A Multibay: Slimline 24x CD-ROM (ejectable)

### Drive Support - SAS Models

|  | Quantity Supported | Position Supported | Controller     |
|--|--------------------|--------------------|----------------|
| <b>Removable Media</b>                               |                    |                    |                |
| Slimline 1.44-MB Diskette Drive                      | Up to 1            | A                  | Integrated     |
| Slimline 24x IDE CD-ROM Drive                        | Up to 1            | A                  | Integrated IDE |
| Slimline DVD-Rom Drive (8x/24x) Option Kit (Servers) | Up to 1            | A                  | Integrated IDE |

### Drive Support - SCSI Models

|  | Quantity Supported | Position Supported | Controller     |
|--|--------------------|--------------------|----------------|
| <b>Removable Media</b>                               |                    |                    |                |
| 1.44-MB Diskette Drive                               | Up to 1            | A                  | Integrated     |
| Slimline 24x IDE CD-ROM Drive                        | Up to 1            | B                  | Integrated IDE |
| Slimline DVD-Rom Drive (8x/24x) Option Kit (Servers) | Up to 1            | B                  | Integrated IDE |

# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Storage

#### Hard Drives

##### Ultra320 Hot Pluggable Drives

**NOTE:** The HP ProLiant DL360 G4p only supports U320 Universal drives.

|                | Quantity Supported | Position Supported | Controller   |
|----------------|--------------------|--------------------|--|
| 300GB U320 10K | Up to 2            | 0-1                | Smart Array 6i Controller (integrated on system board)                       |
| 146GB U320 10K |                    |                    | <b>NOTE:</b> The HP ProLiant DL360 G4p does not offer an external SCSI port. |
| 72GB U320 10K  |                    |                    | Smart Array 6402/128 Controller  |
| 300GB U320 15K |                    |                    | Smart Array 6404/256 Controller  |
| 146GB U320 15K |                    |                    | Smart Array 642 Controller   |
| 72GB U320 15K  |                    |                    | 64-Bit/133-MHz Single Channel Ultra320 SCSI HBA G2                           |
| 36GB U320 15K  |                    |                    |  |

#### SFF SAS Hard Drive

|                     | Quantity Supported | Position Supported | Controller                              |
|---------------------|--------------------|--------------------|---|
| 146GB 3G SAS 10K SP | 4                  | 1-4                | HP Smart Array P600/256 BBWC Controller |
| 72GB 3G SAS 10K SP  |                    |                    |   |
| 36GB 3G SAS 10K SP  |                    |                    |   |

#### Serial-ATA (SATA) Hard Drive

**NOTE:** The HP embedded 2 Port SATA controller does not support RAID, hot plug drive functionality or drive activity LEDs.

|                      | Quantity Supported | Position Supported | Controller   |
|----------------------|--------------------|--------------------|--|
| 700GB 1.5G SATA 7.2K | Up to 2            | 0-1                | HP embedded 2 Port SATA Controller with RAID 0/1 support |
| 500GB 1.5G SATA 7.2K |                    |                    |  |
| 250GB 1.5G SATA 7.2K |                    |                    |  |
| 160GB 1.5G SATA 7.2K |                    |                    |  |
| 80GB 1.5G SATA 7.2K  |                    |                    |  |

#### Serial-ATA (SATA) SFF Hard Drive

**NOTE:** The HP embedded 2 Port SATA controller does not support RAID, hot plug drive functionality or drive activity LEDs.

|                     | Quantity Supported | Position Supported | Controller   |
|---------------------|--------------------|--------------------|--|
| 60GB 1.5G SATA 5.4K | Up to 2            | 0-1                | HP embedded 2 Port SATA Controller with RAID 0/1 support |

# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Storage

#### External Storage

|                                   | Quantity Supported  | Position Supported | Host Controller or Adapter   |
|-----------------------------------|---|--------------------|--|
| Modular Smart Array 20 Family     | Please see the Modular Smart Array 20 QuickSpecs to determine configuration requirements  | External           | Smart Array 6402/128 Controller<br>Smart Array 6404/256 Controller<br>Smart Array 642 Controller<br>64-Bit/133-MHz Single Channel Ultra320 SCSI HBA G2   |
| Modular Smart Array 30 Family     | Please see the Modular Smart Array 30 QuickSpecs to determine configuration requirements.   | External           | Smart Array 6402/128 Controller<br>Smart Array 6404/256 Controller<br>Smart Array 642 Controller<br>64-Bit/133-MHz Single Channel Ultra320 SCSI HBA G2   |
| Modular Smart Array 50 Enclosure  | 2   | External           | HP Smart Array P600/256 BBWC Controller  |
| Modular Smart Array 500 G2 System | 1   | External           | Smart Array 642 Controller (used as Host Bus Adapter)<br>Please see the Modular Smart Array 500 G2 QuickSpecs for the latest list of supported HBAs: <a href="http://www.hp.com/go/msa500">http://www.hp.com/go/msa500</a> |
| Modular Smart Array 1500 cs       | Please see the Modular Smart Array 1500 cs QuickSpecs below to determine configuration requirements   | External           | Please see the Modular Smart Array 1500 cs QuickSpecs (URL below) for the latest list of supported HBAs  |
| Modular Smart Array 1000          | Please see the Modular Smart Array 1000 QuickSpecs below to determine configuration requirements  | External           | Please see the Modular Smart Array 1000 QuickSpecs (URL below) for the latest list of supported HBAs   |
| Modular Smart Array 1000:         | <a href="http://h18000.www1.hp.com/products/quickspecs/11033_div/11033_div.HTML">http://h18000.www1.hp.com/products/quickspecs/11033_div/11033_div.HTML</a> (Worldwide) |                    |  |
| Modular Smart Array 1500 cs:      | <a href="http://www.hp.com/go/MSA1500cs">http://www.hp.com/go/MSA1500cs</a>   |                    |  |

#### Tape Drives, Tape Autoloaders, & Tape Libraries

# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Storage

**NOTE:** For an up-to-date listing of the latest O/S Support details for each of the Tape Drives listed below, please see the following:  
<http://h18000.www1.hp.com/products/quickspecs/Division/10233.html> (Worldwide)

**NOTE:** For an up-to-date listing of the latest O/S Support details for each of the Tape Autoloaders and Tape Libraries listed below, please see the following:  
<http://h18000.www1.hp.com/products/quickspecs/Division/10809.html> (Worldwide)

**NOTE:** For complete listing of tape drive offerings see  
<http://www.hp.com/products1/storage/compatibility/tapebackup/ISS/index.html>

For recommended tape drive offerings for this ProLiant server see the following:

|  | Position Supported | Controller   | Controller Part Numbers |
|--|--------------------|--|-------------------------|
| <b>HP StorageWorks Tape Drives, External</b><br>DAT 24 USB<br>DAT 40 USB<br>DAT 72 USB   | External           | USB 2.0 Port                                       | N/A                     |
| <b>HP StorageWorks Tape Drives, External</b><br>Ultrium 232<br>Ultrium 448<br>Ultrium 460<br>Ultrium 920<br>Ultrium 960<br>DAT 40<br>DAT 72<br>DLT VS160<br>SDLT 600 | External           | 64-Bit/133-MHz Single Channel Ultra320 SCSI HBA G2 | 374654-B21              |
| <b>HP StorageWorks Autoloaders, External</b><br>DAT 72x10 Autoloader<br>1/8 G2 Tape Autoloader   | External           | 64-Bit/133-MHz Single Channel Ultra320 SCSI HBA G2 | 374654-B21              |
| <b>HP StorageWorks SCSI Rack-Mount Tape Drive Enclosures</b><br>1U Rack-Mount Kit<br>3U Rack-Mount Kit   | External           | 64-Bit/133-MHz Single Channel Ultra320 SCSI HBA G2 | 374654-B21              |
| <b>HP StorageWorks USB Rack-Mount Tape Drive Enclosures</b><br>1U Rack-Mount Kit   | External           | USB 2.0 Port                                       | N/A                     |

# QuickSpecs

HP ProLiant DL360 Generation 4p (G4p)

## Storage

### HP StorageWorks Tape Libraries, External

MSL2024 (Ultrium 448, Ultrium 920 and 960-based)

MSL4048 (Ultrium 448, Ultrium 920 and 960-based)

MSL6000 (Ultrium 960 and 460-based)

MSL6000 (SDLT 600-based)

External

Please consult the EBS connectivity matrix at <http://www.hp.com/go/ebs> for detailed connectivity information.

N/A

# QuickSpecs

HP ProLiant DL360 Generation 4p (G4p)

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## Power Specifications

To review typical system power ratings use the Active Answers Power Calculator which is available via the online tool located at URL:  
<http://h30099.www3.hp.com/configurator/calc/Power%20Calculator%20Catalog.xls>

To drill down to calculators:

- Click on: "ProLiant Servers"
- Click on the Server of interest. Example: DL360 G4p
- Click on: "Power Calculator" link. (You may need to scroll down to see it)

# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Technical Specifications

|   |   |  |  |
|---|---|--|--|
| <b>System Unit</b>                                  | <b>Dimensions (H x W x D)</b>   | 1.70 x 16.78 x 27.75 in (4.32 x 42.62 x 70.49 cm)  |  |
|   | <b>Weight</b>   | Maximum (two hard drives installed, two power supply, two processor) 37 lb (16.78 kg)<br>No hard drives installed, one power supply, one processor 27.5 lb (12.47 kg)                                  |  |
| <b>Input Requirements</b>                           | <b>Rated Input Voltage</b>  | 100 to 240 VAC   |  |
|   | <b>Rated Input Current</b>  | 5.85 Amps (100 V) to 2.85 Amps (200 V)   |  |
|   | <b>Rated Input Frequency</b>  | 50 to 60 Hz  |  |
|   | <b>Rated Input Power</b>  | 585 W (100VAC) to 565 W (200VAC)<br><b>NOTE: 585 W of Rated Input Power is for the Maximum Peak Output Power of 535 W.</b>   |  |
| <b>BTU Rating</b>                                   | 2000 BTU/HR<br><b>NOTE: The BTU rating listed is for the Rated Input Power of 585 W.</b>  |  |  |
| <b>Power Specifications</b>                         | To review typical system power ratings use the Power Calculator which is available via the online tool located at URL:<br><a href="http://h30099.www3.hp.com/configurator/calc/Power%20Calculator%20Catalog.xls">http://h30099.www3.hp.com/configurator/calc/Power%20Calculator%20Catalog.xls</a> |  |  |
|   | To drill down to calculators:<br>- Click on: "ProLiant Servers"<br>- Click on the Server of interest. Example: DL360 G4p<br>- Click on: "Power Calculator" link. (You may need to scroll down to see it)  |  |  |
| <b>Power Supply Output Power (per power supply)</b> | Rated Steady-State Power 535 W  |  |  |
| <b>Temperature Range</b>                            | <b>Operating</b>  | 10° to 35°C at sea level with an altitude derating of 1.0°C per every 300m (1000ft) above sea level to a maximum of 3000m (10,000ft), no direct sustained sunlight. Maximum rate of change is 10°C/Hr. |  |
|   | <b>Storage</b>  | -30° to 60°C - Maximum rate of change is 20°C/Hr.  |  |
| <b>Relative Humidity (non-condensing)</b>           | <b>Operating</b>  | 10 to 90% relative humidity (Rh), 28°C maximum wet bulb temperature  |  |
|   | <b>Storage</b>  | 5 to 95% relative humidity (Rh), 38.7°C maximum wet bulb temperature   |  |
| <b>Maximum Wet Bulb Temperature</b>                 | 38.7° C   |  |  |
| <b>SCSI Connectors</b>                              | No external VHDCI connector   |  |  |
| <b>Acoustic Noise</b>                               | Idle (Fixed Disk Drives Spinning)   |  |  |
|   | <b>L<sub>WA</sub>d (BELS)</b>   | 6.6  |  |

# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Technical Specifications

|   |          |
|---|----------|
| L <sub>pAm</sub> (dBA)                        | 50       |
| Operating<br>(Random Seeks to Fixed<br>Disks) |          |
| L <sub>wAd</sub> (BELS)                       | 6.9 BELS |
| L <sub>pAm</sub> (dBA)                        | 53 dBA   |

|   |  |   |
|---|--|---|
| Smart Array 6i Controller<br>(integrated on system<br>board)<br>(SCSI models) | Data Compatible with all<br>Smart Array Controllers  | Yes   |
|   | Instant Upgrades to other<br>Smart Array Controllers | Yes   |
|   | Consistent Software<br>Manageability Tools           | Yes   |
|   | PCI-X Bus  | 64-bit up to 133 (integrated on system board)                             |
|   | PCI-X Peak Data Transfer<br>Rate                     | 1066 MB/s   |
|   | SCSI Protocols Supported                             | Ultra320, Ultra3, Ultra2  |
|   | SCSI Peak Data Transfer<br>Rate                      | 320 MB/s  |
|   | Channels   | 1   |
|   | SCSI Ports<br>(external/internal)                    | 0/1   |
|   | Drives Supported<br>(maximum)                        | 2 drives  |
|   | Cache  | 64 MB Read Cache  |
|   | Battery-Backed Write<br>Cache                        | Yes, with installation of Battery-Backed Write Cache Enabler, up to 128MB |
|   | RAID Support   | 0, 1, 1+0, 5  |
|   | Logical Drives<br>(maximum)                          | 32 logical drives   |
|   | Online Configuration                                 | Yes   |
|   | Online Capacity<br>Expansion                         | Yes   |
|   | Logical Drive Capacity<br>Extension                  | Yes   |
|   | Online Stripe Size<br>Migration                      | Yes   |
|   | Online RAID Level<br>Migration                       | Yes   |
|   | Online Spare Support                                 | Yes   |
| Automatic Data Recovery   | Yes  |   |
| Drive Roaming   | Yes  |   |



# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Technical Specifications

|   |  |  |
|---|--|--|
| <b>Integrated Serial ATA Controller (SATA models)</b> | <b>Simultaneous drive transfer channels</b>            | Support for up to 2 hard drives  |
|   | <b>Transfer rate synchronous (maximum theoretical)</b> | 150 MB/s per channel; 300MB/s in RAID 0 pair   |
|   | <b>Protocol</b>  | Serial ATA   |
|   | <b>Drive support</b>                                   | HP Universal Serial ATA  |
|   | <b>Data transfer modes</b>                             | ATA data-transfer modes supported<br>SATA 1.0, SATA II<br>PIO modes 0-4<br>Multiword DMA modes 0-2<br>Ultra DMA modes 0-6  |
|   | <b>Feature</b>   | Supports Pre-Failure Warranty of SATA Hard Drives<br>Support for Systems Insight Manager<br>Supports multiple logical volumes<br>Setup through ROM based Array Configuration Utility<br>Installation scripting support |
|   | <b>OS Support</b>                                      | Microsoft Windows 2000 Server<br>Microsoft Windows Server 2003<br>Novell NetWare<br>Linux (Red Hat, SuSE, UnitedLinux)   |

**NOTE:** This controller does not support LED functions. This controller does not support Hot Plug functions.

|  |  |  |
|--|--|--|
| <b>Smart Array P600 Controller (SAS models only)</b> | <b>Disk Drive and Enclosure Protocol Support</b> | 3 Gbps SAS (Serial Attached SCSI)<br>1.5 Gbps SATA (Serial Advanced Technology Attachment)                                       |
|  | <b>Architecture</b>                              | 1.5 Gb SATA  |
|  | <b>SAS Connectors</b>                            | 1 internal SFF8484 & 1 external SFF8470 / internal SFF8484 shared x4 Wide SAS Ports<br>12 Gbps per x4 Wide SAS Port (4 x 3 Gbps) |
|  | <b>Data Transfer Method</b>                      | 64-bit wide, PCIX 133 MHz (1 GB/s maximum bandwidth)   |
|  | <b>PCI Bus Speed</b>                             | PCIX-133 and 3.3 volt PCI compatibility only   |
|  | <b>Memory Bus Speed</b>                          | DDR-266 and 72 bit wide bus  |
|  | <b>PCI</b>                                       | 64-bit, 133-MHz PCI-X (1 GB/s maximum bandwidth)   |
|  | <b>Simultaneous Drive Transfer Ports</b>         | PCI-X and 3.3 volt PCI compatibility only  |
|  | <b>Port Transfer Rate</b>                        | 2 x4 Wide SAS Ports  |
|  | <b>Software upgradeable Firmware</b>             | 12 Gb/s per x4 Wide SAS Port (4 x 3 Gb/s)  |
|  | <b>Cache Memory</b>                              | Yes  |
|  | <b>Logical Drives Supported</b>                  | 256 MB Read/Write (512-MB module upgrade available);<br>ECC protection, battery-backed, and removable                            |
|  | <b>Maximum Capacity</b>                          | Up to 32 logical drives<br>Up to 2.2 TB per logical drive  |
|  | <b>Memory Addressing</b>                         | 2.7 TB (38 x 72 GB)<br>64-bit, supporting servers memory greater than 4 GB   |

# QuickSpecs

## HP ProLiant DL360 Generation 4p (G4p)

### Technical Specifications

|   |   |
|---|---|
| <b>RAID Support</b>   | RAID 6 (Advanced Data Guarding)<br>RAID 5 (Distributed Data Guarding)<br>RAID 1+0 (Striping & Mirroring)<br>RAID 0 (Striping) |
| <b>Upgradeable Firmware<br/>Disk Drive and<br/>Enclosure Protocol<br/>Support</b> | 4-MB flashable ROM<br>3 Gb SAS and 1.5 Gb SATA  |

#### Embedded NC7782 PCI-X Gigabit Server Adapter

|  |  |
|--|--|
| <b>Network Interface<br/>Compatibility</b> | 10/100/1000-T<br>EEE 802.3 10Base-T<br>IEEE 802.3ab 1000Base-T<br>IEEE 802.3u 100Base-TX   |
| <b>Data Transfer Method</b>                | 64-bit/66MHz PCI-X   |
| <b>Network Transfer Rate</b>               | 10Base-T (Half-Duplex) 10 Mb/s<br>10Base-T (Full-Duplex) 20 Mb/s<br>100Base-TX (Half-Duplex) 100 Mb/s<br>100Base-TX (Full-Duplex) 200 Mb/s<br>1000Base-TX (Half and Full-Duplex) 2000 Mb/s |
| <b>Connector</b>                           | RJ-45  |
| <b>Cable Support</b>                       | 10Base-T Categories 3, 4 or 5 UTP up to 328 ft (100 m)<br>10/100/1000 Base-TX Category 5 UTP up to 328 ft (100 m)  |

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For hard drives, 1 GB = 1 billion bytes. Actual formatted capacity is less.